

IN THE SPECIFICATION:

Please amend paragraph [00055] as follows:

-- The present invention provides purified and isolated polynucleotides (*e.g.*, DNA sequences and RNA transcripts, both sense and complementary antisense strands, both single- and double-stranded, including splice variants thereof) that encode unknown G protein-coupled receptors heretofore termed novel GPCRs, or nGPCRs. These genes are described herein and designated herein collectively as nGPCR-x (where x is 86-93, 2588, 2589, 2591, 2592, 2593, 2594, 2595, 2596, 2598, 2600, 2601, 2602, 2603, 2604, 2606, 2607, 2608, 2609, 2610, 2611, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2621, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2639, 2640, 2641, 2642, 2643, 2644, and 2645). Table 1 below identifies the novel gene sequence nGPCR-x designation, the SEQ ID NO: of the gene sequence, the SEQ ID NO: of the polypeptide encoded thereby, and the USEP 15 2003 Provisional Application in which the gene sequence has been disclosed.

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Table 1

nGPCR	Nucleotide Sequence (SEQ ID NO:)	Amino acid Sequence (SEQ ID NO:)	Originally filed in:	nGPCR	Nucleotide Sequence (SEQ ID NO:)	Amino acid Sequence (SEQ ID NO:)	Originally filed in:
86	1	59	A	2613	30	88	D
87	2	60	A	2614	31	89	D
88	3	61	A	2615	32	90	D
89	4	62	A	2616	33	91	D
90	5	63	A	2617	34	92	D
91	6	64	A	2618	35	93	D
92	7	65	A	2619	36	94	D
93	8	66	A	2621	37	95	D
93	9	67	G	2624	38	96	D
2588	10	68	B	2625	39	97	D

2589	11	69	B		2626	40	98	E
2591	12	70	B		2627	41	99	E
2592	13	71	B		2628	42	100	E
2593	14	72	B		2629	43	101	E
2594	15	73	B		2630	44	102	E
2595	16	74	B		2631	45	103	E
2596	17	75	B		2632	46	104	E
2598	18	76	B		2633	47	105	E
2600	19	77	B		2634	48	106	E
2601	20	78	C		2635	49	107	E
2602	21	79	C		2636	50	108	F
2603	22	80	C		2637	51	109	F
2604	23	81	C		2639	52	110	F
2606	24	82	C		2640	53	111	F
2607	25	83	C		2641	54	112	F
2608	26	84	C		2642	55	113	F
2609	27	85	C		2643	56	114	F
2610	28	86	C		2644	57	115	F
2611	29	87	C		2645	58	116	F

Legend

A= Ser. No. 60/195,150
 C= Ser. No. 60/195,151
 E= Ser. No. 60/195,093
 G= Ser. No. 60/230,149

B= Ser. No. 60/195,099
 D= Ser. No. 60/195,148
 F= Ser. No. 60/195,098

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Please amend paragraph [000118] as follows:

-- Variant polypeptides include those wherein conservative substitutions have been introduced by modification of polynucleotides encoding polypeptides of the invention. Amino acids can be classified according to physical properties and contribution to secondary and tertiary protein structure. A conservative substitution is recognized in the art as a substitution of one amino acid for another amino acid that has similar properties.

Exemplary conservative substitutions are set out in Table 2 (from WO 97/09433, page 10, published March 13, 1997 (PCT/GB96/02197, filed 9/6/96), immediately below.

Table 2
Conservative Substitutions I

SIDE CHAIN	
<u>CHARACTERISTIC</u>	<u>AMINO ACID</u>
Aliphatic	
Non-polar	G A P I L V
Polar - uncharged	C S T M N Q
Polar - charged	D E K R
Aromatic	H F W Y
Other	N Q D E

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Please amend paragraph [00119] as follows:

-- Alternatively, conservative amino acids can be grouped as described in Lehninger, [Biochemistry, Second Edition; Worth Publishers, Inc. NY, NY (1975), pp.71-77] as set out in Table 3, below.

Table 3
Conservative Substitutions II

SIDE CHAIN	
<u>CHARACTERISTIC</u>	<u>AMINO ACID</u>

Non-polar (hydrophobic)

- | | |
|-----------------------|-----------|
| A. Aliphatic: | A L I V P |
| B. Aromatic: | F W |
| C. Sulfur-containing: | M |
| D. Borderline: | G |

Uncharged-polar

- | | |
|----------------|-------|
| A. Hydroxyl: | S T Y |
| B. Amides: | N Q |
| C. Sulfhydryl: | C |
| D. Borderline: | G |

Positively Charged (Basic): K R H

Negatively Charged (Acidic): D E

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Please amend paragraph [00120] as follows:

--As still another alternative, exemplary conservative substitutions are set out in Table 4, below.

Table 4
Conservative Substitutions III

Original Residue	Exemplary Substitution
Ala (A)	Val, Leu, Ile
Arg (R)	Lys, Gln, Asn
Asn (N)	Gln, His, Lys, Arg

Asp (D)	Glu
Cys (C)	Ser
Gln (Q)	Asn
Glu (E)	Asp
His (H)	Asn, Gln, Lys, Arg
Ile (I)	Leu, Val, Met, Ala, Phe,
Leu (L)	Ile, Val, Met, Ala, Phe
Lys (K)	Arg, Gln, Asn
Met (M)	Leu, Phe, Ile
Phe (F)	Leu, Val, Ile, Ala
Pro (P)	Gly
Ser (S)	Thr
Thr (T)	Ser
Trp (W)	Tyr

Tyr (Y)

Trp, Phe, Thr, Ser

Val (V)

Ile, Leu, Met, Phe, Ala

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Please amend paragraph [00238] as follows:

-- The following Table 5 contains the sequences of the polynucleotides and polypeptides of the invention. The transmembrane domains within the polypeptide sequence are identified by underlining.

Table 5

The following DNA sequence Seq-86 <SEQ ID NO. 1> was identified in *H. sapiens*:

ACACAGTGTGCACACACGTGCAGGGACATACCCCCTTCCCCAACTGCCTGGC
 CTGCACACTTGGCATTTCAGTATTTCTAGGAAGTGATGGCTCTGTGCATCCT
 GAGCCAATCCAGCTCCGAGCCTCCAAGGCATCCTGGTGATGGGCAGCTGGAA
 GCTCTGCCTCTGAGGCCTTCACACACCCACCTTCGGTCAAACCTTGCTTCTGCT
 GAGGAACTTGGTGTGTCTTCCTTCTGGGCAGGAGGTCACATTTGAGAGCACA
 GGAGCAGTGCCTGCCCCCGGGAATGTGGCTCTGGGTAGAATTGCAGGCTCA
 GGGGTTTTGGGCAGGAGAGCACCAACCGTGCCACACCCACACAGACACGGTC
 ACTGGGGCCCTGCAGCAGGGACGACCGCACTTCCCAAAGGGCTGGGAAGCC
 ATGTCCAGAGGAGGCCATGCTCTAGCTCCCTTGGGCAGGGCTGGCTGCAAGG
 AGGGTGAAGTTGGGCATCTTGAACCCAGAGAAGTAGAGGACTCAGCACCAG
 CACAACCAGCTCGGCGCATTAATACACATTCTCTCCCACTTCTCCCCAAGCC
 TGAAAAAACCTCAAACCAGCCTCTTTGCAGCTCCCTGAGGTCATGACTCACG
 AACCATGCTCGGGGCAGGGGAAAAGAAAAGCATCCG

The following amino acid sequence <SEQ ID NO. 59> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 1:

DAFLFPCPEHGSVMTSGSCKEAGLRFFQAWGEVGEECVLMRRAGCAGAESSLSL
GSRCPTSPSLQPALPKGARAWPPLDMASQPF GKCGRPCCRAPVTVSVVWWHGW
CSPAQN PACNSTQSHIPGGQALLCSQMPPAQKEDTPSSSAEASLTEGGCVKASE
AELPAAHHQDALEARSWIGSGCTEPSLPRNTGNAKCAGQAVGEGGMSLHVCAH
C

The following DNA sequence Seq-87 SEQ ID NO. 2> was identified in *H. sapiens*:

CTAAAGGAGGAATAGATGTCTTTAAGAAGAAATGAAAAAATAAAGTAAATG
TGAAAATTTCCCTTACTTATTTCCAAACAAGTGCTCCTCCAAAAAATGCAAA
TAATTAAGTTTCTGAAATGGTGAACATATCAGATTAGTAGACATATGGCAGG
AGCAGCAAATGAGCAGATCAAGTTGAAGTCCTAGTATTACCAATCTGTTAAT
GTTGACAGGAAGACTCATTTTGACTGTTCTTTTATATCAATAAATGAGTGGA
TTTCAACTACTCTAAATAGGAATGCTAAAAGCAGCACTGCTAAAAGTGCATA
TCAAACCAATAATTTTCTGATGCTGTTTTGGTATATCCTACAAACATTTGTAG
GACAACAACCTCAGAAGGGAAAAAATATCTTATGCCTTTGAGGTCTGTACTG
AATGCTAATGCATTTGTATATGATGGGTTTAATACAGAACTGAGAATAAATT
ACTTTCAGCAGCTGCACTCTAGACCTATAAATCGCTCTGAGTACTACAAAATC
CATACAAAGGAAGAACAGCTGGATAATTTACACCACCAGTATTTGTCAAAAA
AAAAAAAAAAAAAGCTGAAAATACAGAACCTGATTTTGTCCCTTTTTCGAGTA

The following amino acid sequence <SEQ ID NO. 60> is the predicted amino acid
sequence derived from the DNA sequence of SEQ ID NO. 2:

LEKGTKSGSVFSAFFFFFQILVVIIQLFFLCMDFVVLRAIYRSRVQLLKVIYSQFCIK
PIIYKCISIQYRPQRHKIFFSLLSCCPTNVCRIYQNSIRKLLVYALLAVLLLAFLFRV
VEIHSFIDIKGTVKMSLPVNINRLVILGLQLDLLICCSCHMSTNLICSPFQKLNYLH
FFGGALVWKVREIFTFTLFFHFFLKTSIPPL

The following DNA sequence Seq-88 <SEQ ID NO. 3> was identified in *H. sapiens*:

AGGGGCCCTCCAGCACTGGTCTTGAAGGGGTGACAGGGTCTGGGGTCTGACT
CCCACCTCCACCACTTCCCACCTGAGGGCCCTGGAATGAATCCTTTCCTGGAT
CTGAGCTGCCACATCATCAGTGAAAATGACACCTATATGGGACTTCAGTGAG
AACACAAATGCAACGTTCTGCCACGGAACAACCCATGTACTCACTGGGAGC
ATTGAGAGTAGATCCACACTGATTGACACAGGGACTCCAGGCCTGACCCATG
ATATGTACTGGATACATGGCCATGAGTGCTCCACAG

The following amino acid sequence <SEQ ID NO. 61> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO.3:

VEHSWPCIQYISWVRPGVPVSVISVDLLSMLPVSTWVVPWQERCICVLTEVPYRCH
FHCSSDPGKDSFQGPQVGS GGGGSQTPDPVTPSRPVLEGP

The following DNA sequence Seq-89 <SEQ ID NO. 4> was identified in *H. sapiens*:

ACACCAAATACTGCTTTGCTGCCTTAGGCTTCAGCACATTAGCATGGCTTCCT
CCCTTGGCATGGTAACTGTAGCTGAACTTGGAGGGTTTGTATTACCCATTATA
ATTATTACTTATTTACATGGAAAACAAGAAAATCTTTATGGGAATTCCAAGT
TCCCCCTAGGAATACCAAAGAGAGGAAAAAGGCTTTGAGGATGGTCCTGATG
TGTGAAGTGGTGTTTCATTGTGTGTTTCACTCCTTACCACCTCAACTTCCCATTC
TTTATGATGGTGAAGGAACATGTCTTTTTGAACTGCTCTTTTATAAAGATCAT
TCTCTGTTTCCACATTATTTCCCTGTGTCTTGCAAATCTGAATTGTTGTCTTGA
TCCAGTTGTATATTATTTTATGACCTCAAAATTTTCATGATCAATTTTCAGATCA
TGGCAGCTTGGTTCTTCAGTCATGTATGAGATGTAATAACAGTACCTTAGAAA
TTCATCAGAGGAAGGGAGGATCTTCAAACATCTCTCTTGAATGTTTGAAAG
ATTCCAAGACAATATAATCAAATAATTAAC TAGAAAAATCGATATGCTCTAT
TAGTGTATCTATGTCACCTTGAAGATTTTTCTTTTTTTTTTTCTTTTTTTTTATT

ATACTTTAAG

The following amino acid sequence <SEQ ID NO. 62> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 4:

HQILLCCLRLQHISMASSLGMVTVAELGGFVLPIIIITYFTWKTRKSLWEFQVPPR
NTKERKKALRMVLMCEVVFIVCFTPYHLNFPFFMMVKEHVFLNCSFIKIILCFHII
SLCLANLNCCLDPVVYYFMTSKFHDQFSDHGSLVLQSCMRCNNSTLEIHQRKGG
SSNYLSMFERFQDNIIKLTRKIDMLYCIYVTLKIFLFFFSFLLYFK

The following DNA sequence Seq-90 <SEQ ID NO. 5> was identified in *H. sapiens*:

AATGCTACTGCTCCTGCATATAATAGCTGCTTTGAAGTGTTTGTCTGCTATGT
CCAAAACATAGACTCTTTCAAAGCACTTTCTGTTGTCTCCTTTTTCTCTTGCA
TAGGAGTCACATTTTTCTGTCTCTTCACATATTTTCATATTTATTTTTGTTGAAA
ACCAGACATTTTAGATAATGTGTTGTAGCAGTCCAGATACTGATTCTCTCCCC
CAGGAGCTGTTGTCTTTCTTACTTGTATATGTGTTTAGTGACTTGGCTGGACTA
TTTAAATAATGTGTATTTCCCTGTAGTATATAACCATCTTTTATACTAATGTTAC
TTTCCGATAGTGCAGCCTTGGGCATGGACAGAGTTATCCTGGGATGACAGT
AACTTTTAATAGGGCTCTCTATGACTATCTCTTTCCCTGATGTCCCTGTAAAGC
TATCTGCATCTCTTGGTATCACACCTAGCCTTTGACTTCCACTAATTGTTTGAT
CATTGCCTCACTGTTTTTGGCAGTGCCCTAAGGCATAAAGTGTTCCACAGTCT
GATATAATTAAATTCAGATTCTTACAAGAGTGGTCTTTGAGGCCAGTCCTTGA
GGTTTGTGCTGACTCTGGGAGGGCTCAAATGTTTCCCT

The following amino acid sequence <SEQ ID NO. 63> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 5:

CYCSCILLSVCLLCPKHRLFQKHFLSPFSLAESHFSVSSHISYLFLLKTRHFRCVV

AVQILILSPRSCCLSYLYMCLVTWLDYFNNVYFPVVYTIFYTNVTFPIVQPWAWT
ELSWDDSNFGSLLSLSLMSLLSYLHLLVSHLAFDFHLFDHCLTVFGSALRHKVFH
SLILNSDSYKSGLGQSLRFVLTLGGLKCFP

The following DNA sequence Seq-91 <SEQ ID NO. 6> was identified in *H. sapiens*:

CCTCACATCCCCTTCCCCTCAAACCCTGGCAACCCCAAACCTGTTCTTGACAGC
CTCCTTTGGCATTTCCTCATTTTGGTGTGAGATCTCACAGCAGAATTTCTTACC
TATTATATACCAGTGCCTCAGTGTGAAGTTCCGGTTTAACTTCTTGTTACCAC
GAGCCCACTATCTTGCCCCAATAATACCCTCCCCCAATTCACAAACACACAA
GCATTCCCTCCTACAGCTTTGGGCCTCCTATCTGAGTCCTTCAGGAAAGAAGT
GCTGTGTAACCTCCCTTGGCAGTGAGTGTAGACTTGGTCCAAGGAAGATGAGC
ACCAGTCAGGGCAGCTGGGCCCTCTTCTCTCCCTGGCCATCAGCAAATCAGC
ACTGCCCATCGATGCCCAGGCAATGGGAGCG

The following amino acid sequence <SEQ ID NO. 64> is the predicted amino acid
sequence derived from the DNA sequence of SEQ ID NO. 6:

PHIPFPSNPGNPKLFLTASFGISSFWCQISQQNFLPIYQCLSVKFRFNLLPRAHYL
APIIPSPNSQTHKHSLLQLWASYLSPSGKKCCVTPLAVSVDLVQGRAPVRAAGPS
SLPGHQQISTAHRCPGNGS

The following DNA sequence Seq-92 <SEQ ID NO. 7> was identified in *H. sapiens*:

ATTACTATTTTTCAACCTCTTTTACTCCAGGGACTTCTATGCACCCTCTCCCTC
AACTCCCCCTCAATTTGTTCTCATAATCCCCATGACCCCCAGTTTTATAACAC
CACTGTCAGGAGCCCAAAGCTGCCATTCACTTCCATTAGCATGACTCTT
CATGTACTTTGGGGTCTTCAGTCTCTCCCCTTCTCCTAATTTCCAGGGTTCCAT
TCTGCTTCTGCTGGCTTCCCTACAAAGCCTGCAACATCATAAGCCATTTTCAGG

AAAGAGCTTGATCATCTTTTGATGAACCCTGCATTCATGACTCACTGCCTTAC
CTGTCTTTGGCTCTGCATGTCCCCCAGTTTCCGTTTCTTTCTCTGGAAAGAGAG
ATTGCCCAAGAGTCCTGCACATCAGCATTACTAGAAATGCATGCAGACCAGC
TTCAGCTGCTTGCCAACTCTTTAAAAAATGAGTAAACAATTTTCTAAAGGGGA
AAAAATCTCTTCACCTCCTCACACCAACTATTTGCATAATTCAGTGACCTTTT
ATAAACCGTGCCATTGTATAAGCA

The following amino acid sequence <SEQ ID NO. 65> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 7:

ITIFQPLLLQGLLCTLSLNSPSICSHNPHDPQFYNTTVRSPKLPFIHFHITIFQPLLLQ
GLLCTLSLNSHDSSCTLGSSVSPLLLISRVPFCFCWLPYKACNIISHFRKELDHLLM
NPAFMTHCLTCLWLCMSPSFRFFLWKERLPKSPAHQHYKCMQTSFSCLPTLKMS
KQFSKGEKISSPHTNYLHNSVTFYKPCHCIS

The following DNA sequence Seq-93 <SEQ ID NO. 8> was identified in *H. sapiens*:

CACCGTCCTCATCATGATCGTCTTCGTCATCTGCTGCTGGGGGCCCTACTGCT
TCCTGGTGCTGCTGGCCGCCGCCCGGCAGGCCAGACCATGCAGGCCCCCTC
GCTCCTCAGCGTGGTGGCCGTCTGGCTGACCTGGGCCAATGGGGCCATCAAC
CCTGTCATCTACGCCATCCGCAATCCCAACATTTTCGATGCTCCTAGGGCGCAA
CCGCGAGGAGGGCTACCGGACTAGGAATGTGGACGCTTTCCTGCCAGCCAG
GGCCCGGGTCTGCAAGCCAGAAGCCGCAGTCGCCTTCGAAACCGCTATGCCA
ACCGGCTGGGGGCCTGCAACAGGATGTCCTCTTCCAACCCGGCCAGCGGAGT
GGCAGGGGACGTGGCCATGTGGGCCCGCAAAAATCCAGTTGTACTTTTCTGC
CGAGAGGGACCACCAGAGCCGGTGACGGCAGTGACCAAACAGCCTAAATCC
GAAGCTGGGGATACCAGCCTCTAAGACGGTTGGAATGGCCAGCTTATGAAGG
CAAATTTCCACTCGCATTATTTAATGATGGAAGATTCTGGGGGAGAGTTGTGG
ATTCATAAAGCCAAACATTTAAAGCTAGAGACGGGGGAGGCTTACCACTTT

CCCCAAACAACATAAAAGACAATGTCCCTTCTTTCAAAAAGTGC

The following amino acid sequence <SEQ ID NO. 66> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 8:

TVLIMIVFVICCWGPYCFLVLLAAARQAQTMQAPSLLSVVAVWLTWANGAINPV
IYAIRNPNISMILLGRNREEGYRTRNVDAFLPSQGPGLQARSRLRNRYANRLGA
CNRMSSSNPASGVAGDVAMWARKNPVVLFCREGPPEPVTAVTKQPKSEAGDTS
LDGWNGQLMKANFHSHYLMMEDSGGELWISSQTFKARDGGGLPLSPNNIKDNV
PSFKKC

The following DNA sequence nGPCR-93 <SEQ ID NO. 9> was identified in *H. sapiens*:

CGCTCCTGCGTAAACACGCGGTTCCCTCGGCAACGCTGGAACCCACGTCAAA
GGCTCCGCCAGGTCCCCAGCGACCGCCACCCCTCCGGCCGAGCCCAGCTCCC
CGCGGCGGCCGCTAGCCCCCGGCCCGAGCCACCACTCCGACCTAGCGGCCG
CCGCCCCCGGTGCGGGATGAGGAGATCCGCGGCCGCCACTGGGCCCCATGGA
GGAGCCGCAGCCGCCCGCCACAGCGAGCATGGCCTTACTGGGCAGCCA
GCACTCCGGCGCCCCCTCCGCGGCCGGCCACCTGGCGGGACTTCCTCCGCG
GCCACGGCGGCCGTGCTCTCCTTCAGCACCGTGGCGACCGCGGCGCTGGGGA
ACCTGAGCGACGCAAGCGGAGGCGGCACAGCTGCCGCTCCCGGTGGCGGCG
GCCTTGGCGGGTCCGGGGCAGCGCGGGAGGCGGGGGCGGCGGTGAGGCGGC
CGCTAGCGACGGAGGCGGCGCCGCTGCTGTGCGACGGAGCTGCAGTGGCGGC
CCAGGCGCTCGTCCTCCTGCTCATCTTCCTGCTGTCTAGCCTTGGCAACTGCG
CGGTGATGGGGGTGATTGTGAAGCACCGGCAGCTCCGCACCGTCACCAACGC
CTTCATCCTGTCGCTGTCCCTATCGGATCTGCTCACGGCGCTGCTCTGCCTGC
CCGCCGCCTTCCTGGACCTTTCACTCCGCCCGGGGGTTCGGCGCCTGCCGCC
GCCGCGGGGCCCTGGCGCGGCTTCTGCGCCGCCAGCCGCTTCTTCAGCTCGTG
CTTCGGCATCGTGTCCACGCTCAGCGTGGCGCTCATCTCGTTGGACCGTTACT

GCGCTATCGTGCGGGCCGCCGCGGGAGAAGATCGGCCGCCGCCGCGCGCTGCA
GCTGCTGGCGGGCGCCTGGCTGACGGCCCTGGGCTTCTCCTTGCCCTGGGAG
CTGCTCGGGGCGCCCCGGGAACCTCGCGGCGGCGCAGAGCTTCCACGGCTGCC
TCTACCGGACCTCCCCGGACCCCGCGCAGCTGGGCGCGGCCTTCAGCGTGGG
GCTGGTGGTGGCCTGCTACCTGCTGCCCTTCCTGCTCATGTGCTTCTGCCACT
ACCACATCTGCAAGACGGTGCGCCTGTCGGACGTGCGCGTGCGGCCGGTGAA
CACCTACGCGCGCGTGCTGCGCTTCTTCAGCGAGGTGCGCACGGCCACCACC
GTCCTCATCATGATCGTCTTCGTCATCTGCTGCTGGGGGCCCTACTGCTTCCTG
GTGCTGCTGGCCGCCGCCCGGCAGGCCAGACCATGCAGGCCCCCTCGCTCC
TCAGCGTGGTGGCCGTCTGGCTGACCTGGGCCAATGGGGCCATCAACCCTGT
CATCTACGCCATCCGCAATCCCAACATTTTCGATGCTCCTAGGGCGCAACCGC
GAGGAGGGCTACCGGACTAGGAATGTGGACGCTTTCCTGCCCAGCCAGGGCC
CGGGTCTGCAAGCCAGAAGCCGCAGTCGCCTTCGAAACCGCTATGCCAACCG
GCTGGGGGCCTGCAACAGGATGTCCTCTTCCAACCCGGCCAGCGGAGTGGCA
GGGGACGTGGCCATGTGGGCCCCGCAAAAATCCAGTTGTACTTTTCTGCCGAG
AGGGACCACCAGAGCCGGTGACGGCAGTGACCAAACAGCCTAAATCCGAAG
CTGGGGATACCAGCCTCTAAGACGGTTGGAATGGCCAGCTTATGAAGGCAAA
TTTCCACTCGCATTATTTAATGATGGAAGATTCTGGGGGAGAGTTGTGGATTT
CATAAAGCCAAACATTTAAAGCTAGAGACGGGGGAGGCTTACCACTTTCCCC
AAACAACATAAAAGACAATGTCCTTCTTCAAAAG

The following amino acid sequence <SEQ ID NO. 67> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO.9:

LEPTSKAPPGPQRPPPLRPSPAPRGGRPPAPSHHSDLAAAAPGAGGDPRPPLGPME
EPQPPRPASMLLGSQHSQPSAAGPPGGTSSAATAAVLSFSTVATAALGNLSD
ASGGGTAAAPGGGGLGGSGAAREAGAAVRRPLATEAAPLLSHGA~~AVAAQALVL~~
LLIFLLSSLGNCAVMGVIVKHRQLRTVTNAFILSLSLSDLLTALLCLPAAFLDLFTP
PGGSAPAAAAGPWRGFCAASRFFSSCGIVSTLSVALISLDRYCAIVRPPREKIGRR

RALQLLAGAWLTALGFSLPWELLGAPRELAAAQSFHGCLYRTSPDPAQLGAAFS
VGLVVACYLLPFLLMCFCHYHICKTVRLSDVRVRPVNTYARVLRFFSEVRTATT
VLIMIVFVICCWGPYCFLVLLAAARQAQTMQAPSLLSVVAVWLTWANGAINPVI
YAIRNPNISMLLGRNREEGYRTRNVDAFLPSQGPGLQARSRSRLRNRYANRLGA
CNRMSSSNPASGVAGDVAMWARKNPVVLFCREGPPEPVTAVTKQPKSEAGDTS
LDGWNGQLMKANFHSHYLMMEDSGGELWISSQTFKARDGGGLPLSPNNI

The following DNA sequence Seq-2588 <SEQ ID NO. 10> was identified in *H. sapiens*:

TCTCAAAAAATAAATAAAAACCACTGTACATCAACAAGGCCCTTGGGGGACA
GCTGGGGGCATAAGTAGGTGTCAGCCATACATCAGAGCAGTGTGCCTGCCCTG
AGCTGCTTGGGGTTGACCAGCCTGGTGTCCAGAAATGCCTGCTGGAGGGAGT
CGTGGTACAGGAAACCTTGTGCTCTTAGAAGGTCTCCTGAGAGGCCCTGCAA
AGCCAGAGTCCCTCTTAGCAGCTCAGATCAGTGCTATCAAAGTATAGCTCGG
GGATTGCTGCCAGCATACAACTTTTACTGGTCTGCAGCGAGATAAGTACAG
AAATTGAAAGTAAGCATTTAGAACTTTTATAACAATTTTACAAGGTCTTGTC
AAATGTTATTAAAACAAAGCTGAGGCTGGAATTTACCTTTTTTCATTTGTTT
TTTTCAATTTAAACAAATTGTAGTAAAATATAGGTAATATAAATGTACCATT
TAGCCATTTTTGAGCGTACAATTTAGTAGCAGTAAGTGCTTTCACAATATTGT
GTAACCACTAGTATTATATAGTATATATTTTTAAAATTTTACAGAAGTATTAA
GTTAGCAGCAGATTAAACATTTTTTTCTTAAATTGAGCTTGAGAAGCGCTGGC

The following amino acid sequence <SEQ ID NO. 68> is the predicted amino acid
sequence derived from the DNA sequence of SEQ ID NO. 10:

ASASQAQFKKKMFNLLTYFCKILKIYTIYWLHNIVKALTATKLYAQKWLKWYI
YITYILLQFVIEKNEMKKVKFQPQLCFNNIQDLVKLLKFLNAYFQFLYLSRCRPV
KVCMLAAIPELYFDSTDLSCEGLWLCRASQETFEHKVSCCTTPSSRHFWTPGWST
PSSSGQAHCSDVWLTPTYAPAVPQGPCCTVVFIYFLR

The following DNA sequence Seq-2589 SEQ ID NO. 11> was identified in *H. sapiens*:

AGAGAGCAGATTGCCCTGTGTAGGTCAGGTCTGGGTTCTTTCTAGTCCAGAGT
AGGGAAGAAACAGGAAAGAGGGCTGGTGTGAAGGACCTTCAGCCACGAGA
AGGGCTGTGTACCATGTAGCCCTCTGGGGAGGCACAAAAAGGCTCACCATT
TCTGAAAATGACTAGACTGCAGGATCCACGTGAGTGTGACTATTGCATTCAT
GACCTTATCCACAGGGCCTCACAAGGTGCCTGACATGCAGTAGGCTCCAGAT
GCATATTTATTATAAAGTGAATAGTCCTTAAGCTGCAGGGTCCCTTCTATTTG
CATTCTAAGAAATAGTCACTTTTATGCCTAATTTTGTATTTGCAGTTTTATAAG
TTTTATAAGAGGGTCTCCCAAATAGTATAAACTTCAAGCCCCACAAAACCTAT
GTTTGCCTCCCATAGGCATGCAATAAATGTTCGTGGATCTAATGAGTAACAA
GAAAAAGAAGGAACAAAACCCTAACCCCTCCCCTACCCAAACCAGTGGCAA
CCGGGGAGGATCAAATTCAACCTTGATCAGTCAGAGGCAGCATTCTAAATT
ATTCCCAAGCAGCAATAGACAATGATTTACCTCAATTAATTCAGCCAGTTAA
AAGCTTAGTTCTTACTTGCCAACCGAAGGCTTGAAGGCAAAATGTGTTTAAG
CCTC

The following amino acid sequence <SEQ ID NO. 69> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO.11:

RLKHILPSSLRLASKNAFNWLNLRHIVYCCLGIECCLLIKVEFDPPRLPLVWVGEG
LGFCSSFFLLLRSTNIYCMPPMGGKHRFCGASLYYLGDP LIKLIKLIQNAKLFLR
MQIEGTLQLKDYSLYNKYAS
GAYCMSGTLGPVDKVMNAIVTLTWILQSSH FQKMVSLFVPPQRATWYTALLVA
EGPSTPALFPVSSLLWTRKNPDLTYTGQSAL

The following DNA sequence Seq-2591 <SEQ ID NO. 12> was identified in *H. sapiens*:

TTCAGGCAGATGTCAGTTAAAACTTACCTCTGCACACTGCAAAAACTGTAT
AGCCCTGAACAGATACTTTTCTTGAGCATAGTTCCTTTGTCTCTAAAGCAGGC
ATAATTGCCAATGTGGGGATGATATTTAGAAATCTGAACTGATGTTTATTCTC
TAGGGGTCTTCTCATTTGAGCTGGGATTGGAGATGTCTAGTGTCTCAGAGCAG
CAATAAGAAAACAGAAACCTCTTCCAGCTTCTGACATCCAAATGTCAAGCTC
TTAGGAGAAGAATGGAAAGTCCTCAAGAAATGCAAATAGCTTTGGCAGAATA
GCTGATGAAGACCACCTCTCCCCCTCCAGAAAGGCATTGGTTCCCCATTTCAT
GGAAAAGGGAATGTAGAGAGAGATTAGATAATAGTACATCCATAAGGTTCTC
GGAATCTGCATCTGAGGAAGAGGGGCGTCAGAGACCCCAGCTGTTATCTATA
ATCCCTCCT

The following amino acid sequence <SEQ ID NO. 70> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 12:

EGLITAGVSDAPLPQMQLPGTLWMYYYYLISLYIPFSMNGEPMFWRGERWSSSAI
LPKLFAFLEDFPFSELDIWMSEAGRGCFLIALRHTSPIPAQMRRPLENKHQFR
FLNIPTLAIMPALETKELCSRKVSQGYTVFAVCRGKFLTDICL

The following DNA sequence Seq-2592 <SEQ ID NO. 13> was identified in *H. sapiens*:

GCACTAGGGCAAAGTCAAGACATACGGGTGTCCAGTTCTAGCTTTGCAACTA
ACTGGTTATATATTTTAAAGTTACAGTCACTCTGCGCCAGTTTCCTCATTTTAA
ATAGAGTGGGTTAGAACTAGATAAATACTTTCATTTTGTCAAGCTCTAAATTC
TGACTTCAGGAAAAAACCATAAGGCACTGGAGGTTTATTCATAGGTTTTTCTG
CTGACCCCGTCCCTCTCTGTTTCTTCAACCACCACAAGACAATCAACTTCCCT
GATTGGAGATTGGAACAGGTGTGTTCTAATTCTAAATGCATCACTTAACTATT
AGTTCCAACCTCTCTGGGGCTTCCTTCAAATAGGGGAATTAGACTGGTCTCCAA
TCTCTTTGTACAGATGAGTAACTTTATTTACCCAAAGATTTAGTATTAACAGT
CGGGAGCAGGAGGGAGAATACTTATGAGACAACAGCCATTTCCACAGTGGA

GAGGAATGGTTTGTTCCTCAATAGAAGTTACCAGATTTTCAGTCCCATTGCCAAA
TAGATATTATGAGCAAGGAAGAAATCTATAGTAGTAACTTAAGACCACCAGA
AAGATCAAAGCCCAGAGGGGTGAGGGTATGGCAATAAACATTAGACATATCTC
TAACCCTCTTTTGTGTGAAATACTCATTACCCTGTGGTACTGGGAATACCTGT
GCCTACAA

The following amino acid sequence <SEQ ID NO. 71> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 13:

LAQVFPVPQGNEYFKQKRVRDMSNVYCHTLTLWALIFLVVLSYYYRFLPCSYLF
GNGTEIWLLGLTNHSSPLWKWLLSHKYSPSCSRLILNLWVNKVTHLYKEIGDQ
SNSPIRKQVRGTNSVMHLELEHTCSNLQSGKLIVLWWLKKQRGTGSAEKPMNK
PPVPYGFFLKSEFRAQNESIYLVLTHSIKNEETGAELLKNIPVSCKARTGHPYVLT
LPC

The following DNA sequence Seq-2593 <SEQ ID NO. 14> was identified in *H. sapiens*:

TTCTGCCATCGCAAGGGGAGGGAAGAGCACCTAAAGGGCTTATGAGAGGTTT
GACTGACCAAGGGAGGGAACAGAACACATTCCTTTCCATTGGCTAGGACTCG
GTCACATGGCTTTCCTCATTATTAGTGAGGCTTGGAGAATTCATCTATTTGT
GAGCCCAGGAAGAAGAGAAAACAAATTGTGGTAAACATTTAGCAGTCTCTAT
GACAATAGTCTGTATGTTGACTGCAAAGGTGGATGAACAAAACCAAGCCTCC
TTTAAAGCAATACAATCTGGCAGAGTCCCTGGGTTATCATTCTGAACATAGAT
GCTTATTGTTCAAGAGTTAAGAAAATTAGCATGACTGCATTCCAGTTCTATAA
ATTTAATCTTTATTCAGCATATTGTCATCCACATGTCTTAAAAAATAAAATAA
AAAACAAAAAACCTAGTAACCTACGTTTTATATAGCAAGGAACACTCATATAT
ATCACTTCATTGTATCCTTACAACAATCCTGTGCAGTATATGTTTTACTCCCTT
TCTTCTATGTTTTGTATATAAAGAAATGAGCCCCAGGGAGTTGAATGGCTTGC
CCCAACTAGTGAAGCTAAACTCCAATCCAGGTCTTTTTATTTCCAAATCCAT

AATCTACAACCATCTGTAGAGAGTTATAATTAAGAGATATGAATGGTCAGGG
GCCTTTCCATTTTCAGTGCAAGTCTGCCCAGCTCCAACCTACCAGCATCTG

The following amino acid sequence <SEQ ID NO. 72> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 14:

LPSQGEGRAPKGLMRGLTDQGREQNTFLSIGDSVTWLSLIISEAWRIHLFVSPGRR
ENKLWTFSSLYDNSLYVDCKGGTKPSLLSNTIWQSPWVILNIDAYCSRVKKISM
TAFQFYKFNLYSAYCHPHVLKNKIKNKKPSNYVLYSKEHSYISLHCILTILCSICF
TPFLLCFVYKEMSPRELNGLPQLVKLKLQSRSFYFQIHNLQPSVESYNEIMVRGLS
ISVQVCPAPTTSI

The following DNA sequence Seq-2594 <SEQ ID NO. 15> was identified in *H. sapiens*:

AATCCTGCATTTCCCATGCTCTGGGGTGAGAAGGAATTAGCTGGGAGCCAAT
TAGCAATCTTGTGAGAAGCAAATGAATTTTGAATAAACTGGATACTTAACT
GAAATGAGACCATTGAAACCAGAAGAGCCTGAGATCCATCAGTTAGAGGAA
ATAAAAGAAGTGGCATTTCCTTGCCATCTGGGTGCAGTGTGAGTGATTTT
TAATCCTACCACATTTTATCCCTGCTTCCCTTAACTGTAGGACCCAAGGAA
CCTGGCTGTTTTGTTCAACATGATGTGACCCCATACCTAACCAGGCCAGGCAC
AAAATTGGCCTCCAATAAGTAGTGGATCAAAGTATGAATGGATAAACTGAAT
GAATGAAGCCAACTTGAATTTCTCCATAGCTTATCCAAATGGGAATGGTAA
AAATCATAAGCTTTTGAGAAGAGAACTTATTAAGAAGCCCTACATCAGTCAT
GACTGGCATCATTGGTTAGTTTACCCAATTTTCTCCTTCCCTTCATCTTCCTAA
TGCAACTCTGGTTTGGGCTGCAGTATACCCAGTTAGAATACGCCCTCCCCAGA
GTCTCATCCAGCTGGAGATGATCAAGTCACCAGTTCTAGCTAATAAGTTGCCA
GCCAAAGTATTCAGGATGAGACTTCCAGAAAAAGCATTGTTTTCTTGATAAC
AATGGACAGACC

The following amino acid sequence <SEQ ID NO. 73> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 15:

SVHCYQENNAFSGSLILNTLAGNLLARTGDLISSWMRLWGGRILTGYTAAQTRV
ALGRREGENWVNPMMPVMTDVGLLNKFSSQKLMIFTIPIWISYGEIQVWLHSFSL
SIHTLIHYLLEANFVPGLVRYGVTSTCKQPGSLGPTVGKQGKCGRIKITHTAPRW
QGKCHFFYFLLMDLRLFWFQWSHFSLSIQFIQNSFASDKIANWLPANSFSPQSMG
NAG

The following DNA sequence Seq-2595 <SEQ ID NO. 16> was identified in *H. sapiens*:

GACTGTTATTACTGAAAGTCATTGCTTTTAGACTCTTCCAACACTACAGAGCAAG
GAAGTTTATGTGTATATAGTAATCTGTGAATATACACATACATACATATTT
CTATATGTAATCATCCATATTTAAATTAAGTAGAATATGAGTTCATACTGATA
TCTCCAATCCTAATCAGTTACCACAGGGATTATTCCGGCCTTTTTCCCTTGGA
AGTTTGCAACTCCTGCTTCAACAGTTAGAAATCTGGCTTCCATATTCATTTGC
TTAATTGTTCAATTCCAGTACACATAAATGGTGGCTTCAGAATTAATAACTTA
TACCTCCATGGGAAATAACTTTATTAATACTAAAGTACAGCACTTATGTATAGTA
CTTTTTGAATTTTGTAGACTTAGAGATTCCTCTTCTTTTCCAAAGTTACTTAGGT
CAGAACCATTTTCCATTCTTCAGTGAAGTTGTCTTATGTATTTGTAATACAGTT
AGATTGTTCTGTTCATATGGTGCATTCCATCCTGGGATTTCTATCTCTTTTTT
AACATTTGCATATATTAAGTTTCATTCTTTTGTGCTGTATCATTCTATGGGTTT
CAATTAATGCATAGTGTTCATGAATCTGCCACCATAGGAGCATCATAACAGAGT
AGTTTCACCAACTTAAAAAATTCCTATGTTTTAC

The following amino acid sequence <SEQ ID NO. 74> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 16:

LLLLKVIAFRLFQLQSKEVYVYIVICEYTHTYTYFYMSSIFKLSRIVHTDISNPQL

PQGLFRPFSLGSLQLLQQLLEIWLPHYSFALFNSSTHKWWLQNLIPPWEITLLTKVQ
HLCIVLFEFLDLEIPLLFQSYLGQNHFPFFSEVVLICNTVRLFCHMVHSILGFPISF
FNICIYVSFFCAVSFYGFQLMHSVMNLPPEHHTFHFQLKKFPMFY

The following DNA sequence Seq-2596 <SEQ ID NO. 17> was identified in *H. sapiens*:

CGTTCCTTCCTCTGTGTCATAATGGACATGATGATAGTTGGCTCACTCAGTAA
ACATTCTGTGTCTGGAAGGATTTGATTTGTCCTTTTCTTGAGGCAACAATTTTG
AGGTGATTTGAAAAATCTTTCTTGAAAAATTAAAAAATTTTCTAATTA
TAATGCAAGCTCATTAGAAAAAAATTGAAAAATAAATAAAAGCACAAATTTT
CTTAACCACTTAAAGATGACCATTGTTAGTTTTTTTTTTTTTTTGGTGCTTTTTT
CCGTTTCCAATCTCTTTTCTATTAAACTTCTGAAATGTGATTGTAGCAATGA
CGCATAAGGGGCCCTTGACACATTGAGAAATTTATAAATACGCTGGCTTCTTG
TCTTGCTTTTGTCCCCAGCTTAACTGGGAACTCTTTTCTATATCTTTGAACT
CCAAATCCTAGATAATTCTTCAAGGTCAAGCTCCAATGTCTTGCTGGATTCTT
CTCAGCAGGAATTGATCTATTTTCTCTGTATTTTGTGCCACAGGATCTATGA
CTCTCTTATGGCAACTACCACCTTCTGCCTTATATTACGATTTTGAATCTTCC
AACAAAGTCTAATTTTTTTTTTTTCAAATGAAGTCTCGCTATATTGCCCAAGCT
GGAG

The following amino acid sequence <SEQ ID NO. 75> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 17:

FLPLCHNGHDDSWLTQTFCVWKDLICPFLEATILRFEKSFLKNKIFLIKNNASSLE
KNKINKSTIFLNHLKMTIVSFFFLVLFVSNNLFSIKTSEMLQRIRGPHIEKFINTLA
SCLAFVPSLTGNSFSISLKLQILDNSSRSSNVLLDSSQQLIYFLCIFVPQDLLSYG
NYHLLPYITIFESSNKVFFFFQMKSRYIAQAG

The following DNA sequence Seq-2598 <SEQ ID NO. 18> was identified in *H. sapiens*:

ATGTCATGGGAAATGCAAGAATATGTGTCCAGCATGGAAGGGAATCAGTATG
GAAGTCTTTTGATAAATTGTGGCATTATCACTAACATTGCCTCAAACTTTA
GACTACCTGCCATATACAAATTAGAGGTGAAAATTACTTCCATGTAATATAC
AAGCCAACACAAAGAATCCTATCCCAGTTTCTTGGATGGATAGGCAAGAATC
TGGGTAAGGTTTATTGTGCAATAATCCTCTTCTCTTCTATAGGCCAGGATT
AAGTTTACCTCAAAAATGGAAAATTTTGGCTGGGAAAATTACATGTGGGAAG
ACATCTTCAGTGGAGATTTTAGTAATTACAGTTTCAGCTATGACCCTACCCCT
TTTCTACTAGATTCTGCCCCATGTTGGCCAGAATCCCTAGAAATCAATTATGT
TTTGATCATCATCTATGCCCTGATGTTTCTACTGAACGTGATGTGAAACTCCC
TGCCGATGCTGGTCATCTTATTACAGCTGAGTCAGCCACTGTCACCGATGTCTA
CCTGCTGACCCTGGCCTTGGCCGACCTGTTCTTTTCCCTGACATTGCCCATCTT
GGCTGCCTCCAAGAATGAATGGCTGGGATTTTGGCACAATCTGTGCCAGGT
GGTCTAGCTCCTGAAGGAAGTCAACTTCTACGGGGGGTATTCTACTACTGGCC
TGCCGCAGCATGGGACTGTTA

The following amino acid sequence <SEQ ID NO. 76> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 18:

VMGNARICVQHGRESVWKSFDKLWHLSLTLPQNFR LPAIYKLEVKITSMYTSQH
KESYPSFLDGARIWVRFIVQSSSLFYRPGFKFTSKMENFGWENYMWEDIFSGDFS
NYSFSYDPTPFL LDSAPCWPE SLEINYLIIYALMFLLNVMNSLPMLVILFSVSHC
HRCLPADPGLGRPVLPDIAHLGCLQEMAGIFGTICARWSSSRKSTSTGGILLAC
RSMGLL

The following DNA sequence Seq-2600 <SEQ ID NO. 19> was identified in *H. sapiens*:

TATGATATTTAGCCATGGTGCTGAACATTTCCAAACAGCATAAATGCACCAT
GTGTGTATGTTTTCTTTGGGATGCTGTGCTTAGAGGGTAGCAGACAGGGTGC

AAAGTGAGAAGGACCTGGCTCTGCACCCAACACTGCCAGTATTGAATCCTGA
 CTCCATCATCTGGGAGCTGTGCAACCTACGCAAGGTACTTGGCCTCAGTTTCC
 TCATCATCCCCATGGCATT TTTTGTGAGAATTAAATGAGCTGAAACCTTGAAAC
 CCCTTCAAACAGCAGCTGGCACAGAGGAAGCACACAATCAATGTCAGCTGTA
 CTCTTCCTGGCAGTGTGGAGATCCCAGCTCTGCCCCTAGCTAGTCACTTCTCT
 TCTTGGAATCTCAGTTCCTTCATCTGGGAAATGGGAGCAGATGTGAAAAGGG
 GCAGGGTGAGAATACATATGAAAGTGCTGGCTCCTGGTGCATAGCAGGCACT
 TAATAATGATACACTTTTCCATCTTCTGCCTTCCCCAGGGATGCATTGTGCCA
 TGTAAAGAGAGAGAGCCTCCAGGGTTGGCGAGAGTTTTTGATCCAGGCTTTTTTC
 AGGTGTCAAAGATGAGCTGGGTGATTCTCCATAGATTTTCCTTTCTAACAGGT
 GACAGTTCTGTTTCAGAAATACTGTGGATGTTTACAGGTTTACAGCACAT

The following amino acid sequence <SEQ ID NO. 77> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 19:

VLTTSTVFLKQNCHLLERKIYGESPSSSLTPEKAWIKNSRQPWRLSLLHGTMHPW
 GRQKMEKCIHKCLLCTRSQHFHMYSHPAFFHICSHFPDEGTEIPRREVTSGQSWD
 LHTARKSTADIDCVLPLCQLLFEGVSRFQLIFSQKCHGDDEETEAKYLAVAQLPD
 DGVRIQYWQCWWQSQVLLTLHPVCYPLSTASQRKTYTHGAFMLFGNVQHHGNI
 I

The following DNA sequence Seq-2601 <SEQ ID NO. 20> was identified in *H. sapiens*:

TTTATGCTCATGTAGTTCTTTCCAAGAAGAGAAATTACAGAGTCAAATTGTAG
 AAATATTTAAAAATCTTTGGCACACATAAACAGTATCCATATAATTTATACCA
 TCTTTTAGATGAGTTTAAACACCAAATGATAGAAATCTCAGTTTCATACAGAT
 TTGGTGGGCTGGAACCAAATACTTGCCTGATAGGCTGTCCCCTCGTCTTTCCT
 AGCTGTTCTGGGAAAGGCAGTTCCTGGTAAGAACTCTCCCTACGGCCCCCTTTC
 ATCTCACTGTTTCCTCAGGGCATAGATAAGTGGGTTGAGCAGTGGGGTTCCCA

ATGTGTACACCAGTGAGATGAACTGATCTTGCTTGGGGTTGTAGCTGGAGCT
GGGGCACAGGTACATGAAGGCACAGCAGCCATACTGCAGCAGCACACAGT
GAGGTGGGAAGAGCAGGTGGAGAAAGCCCGGTGGCGGCCAGCAGCCGAGTG
GATCTTGA

The following amino acid sequence <SEQ ID NO. 78> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 20:

KIHSAAGRHRAFSTCSSHLTVVLLQYGCCAFMYLCPSSSYNPKQDQFISLVYTLG
TPLLNPLIYALRNSEMKGAVGRVLTRNCLSQNSERRGDSLKGKYLVPAHQICMK
LRFLSFGVKTHLKDGINYMDTVYVCQRFLNISTILCNFSSWKELHEHK

The following DNA sequence Seq-2602 SEQ ID NO. 21> was identified in *H. sapiens*:

TTTAAGCCACCCAGTCTGTGGTGTCTGTTATGGCAGCCCAAGCCAGCTACTA
CAGGGTGGGACGAGGGGAGGAGCATGGCCTCTGCTGGAAGTGCAGGCAAAT
GATCCCCCAGGAACAATGATGGGAGCTTCTGATTGCTCTCATTATCTCTGCAA
AGTAGGAAGAAAGATTCATCAGCTGAGCATGAGGATGGTAGAAAACATCTTT
GGGAAATTTCAGAAGTGAAGGAAGGCATAAAATAGTCATCTAAAAAAGCA
GGAAAGGGAAAAGACAGAGAAATCCAGTATGAGTCCCAGGACTCCAGGAAG
CATCAGGACCCACTTGAAATTGCCAATGCTGAATTTAAAATGAGGCCAGTCT
GTACAGAAGCACTTCTGGAATTTGCTAACAGCTAAATAGAGTAGAATCAATA
CTTTAGAGAATACGAGTAACCAAAGGAATAAAATTAAGTCACTTTTGT
GGTTTTTACTATTAATATTTTCTTCAGTGTAATCATAGCTGCCTGAATTCCTG
AACCCCTCTTATATAAATCTAAAAAGCTCTGGTTTATCATGGTTGAAAATTCA
TGGCTAACTTATCAGGCAAAGTGTCCCTAAAGCATTTTTTGAATAGCTTTAGT
ATCAAGATGGTACTGAGTGTACATTTCAATTCCTGCTTAAAGGAAGGCTTAG
TTATTTTAAACCAAGTCTTATTTTTATAG

The following amino acid sequence <SEQ ID NO. 79> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 21:

IKIRLGLKLSLPLSREMKCTLSTILILKLFKKCFRDSLDPDKLAMNFPQTRAFIYIRG
VQEFRQLFTLKKILIVKTTKVDQLILFLWLLVFSKVLILLYLAVSKFQKCFCTDWP
HFKFSIGNFKWVLMPLGVLGLILDFSVFSLSCFFMTILCLPSLLKFPKDVFYHPHA
QLMNLSSYFAEIMRAIRSSHHCSWGIIHLHFQQRPCSSPRPTLLAWAAITEHHRLG
GL

The following DNA sequence Seq-2603 <SEQ ID NO. 22> was identified in *H. sapiens*:

ATTTCTGGATTTATGCCTCCCCTGACCCATTCCAGGATTTACCCCAAACCTTC
CACACTCTCTTCTAACAGGGAAAGTTCTGTTATGACACAATAGTACTTATTAA
GACAGATTTACCTTCTAAGTCTCAGGACAGCATTTCACAACCAGAAATAACT
GGTCACATGAAGAACCAGGAGTCTGGTAGTAGTGAAATTCATTTTCCTTCTTG
AAAAAGTGGATCAAAGGATTCAAACAGCAAGTGGTGAATCAATGAAAAGTG
GTAAAATGGTGAGGAAAAAATGTTACTAAAAGATGACCTCAAGATTACTGGT
GCATATGAATTGCTTTTTTATATAGGAAAATACTGGATAATTTCTTATTGTCA
TAGTATAATTAGAAGCAATTTTCATGTGTTTCATTTGCCACATGAGTTTAAATG
GAATAGATTTGGTTCCCTCTCTAACATGAGTTCAGTGTCTGAACTTGGGCAA
TTTCTAAACAATTCTGAGCTTCACTACCTCTGCTTGAAAGTGAG

The following amino acid sequence <SEQ ID NO. 80> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 22:

SLSSRGSEAQNCLEICPSSDELMLEREPNLFHLNSCGKMNTNCFLYYDNKKLSSI
FLYKKA IHMHQSGHLLVTFFPHHFTTFHFTTCCLNPLIHFFKKENEFHY YQTPGSS
CDQLFLVVKCCPETKVNL SVLLCHNRTFPVRRECGRFGVNPGMGQGRHKSRN

The following DNA sequence Seq-2604 <SEQ ID NO. 23> was identified in *H. sapiens*:

CTTTGGAATTTTATTCTAAGCATCAATCAAGAGGTATAGTACGAGAAAGGTA
GAACATGTAATTATAAATTCAGGATTCAGGAAGTTTATTTTCTCTTCTTTTAA
ATTCTCTCAAATGATCTTGATTCCTGCAAAGTGTTAGTATATCTGGTAAGTA
AGAGTCTATTTCTTTTAACTTCATCTGTATTAACCAGCTTTATATGACCAA
ATGTCCCCCAAATTTAAATCTTTGCACAGTAAGGCCTTATATGTACACCTGGC
CTCATTTCAAAAGACTAAAGCAGTTGTTCTCAAATTCAGCTGCACATTAATAT
AAACTGGAAAAGTGTAAAGCTCCTGATGACAAAGCCACATGTGAGACTAAT
TTATGCTGAATCACTGGGCCAAGGACCCAGGTATCAGCATTTTTTAAACTAT
AGAGGAATAACCAGGGTTGAGAACCACTGCACAAAATGGTAAATGCAACTTT
TATTTAAGTTATTTTTTTTAAATAAATAATGGTTGAATTGATACTGATCTTAGT
ACCAAGTCATGGCAATTTTTTCAGACTTAGAGAATTCATCCTGGCATTGAGAT
TATTAAAGAACCTAGAAATCCAAGTGTTTTTGTATATTTTCCTGTAAATAT
TAGAGTATGCTAGTGCTCATCCTTATTTGATAATTTTGGAAAAATATATTAA
ACATTT

The following amino acid sequence <SEQ ID NO. 81> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 23:

LEFYSKHQSRGIVRERNMLIQDSGSLFFSSFFSQNDLDSCKVLVYLVSLSLFLNFI
CINQLYMTKMSPKFKSLHSKALYVHLASFQKTKAVVLKFSC TLITGKLFKLLMT
KPHVRLIYAESLGQGPYQHFLKLRNNQGEPLHKMVNATFIVIFFKIMVELILILV
PSHGNFFRLREFILALRLLKNLEIQVFLFIFFLILEYASAHPLYLIILEKYIKTF

The following DNA sequence Seq-2606 <SEQ ID NO. 24> was identified in *H. sapiens*:

ATTATCATTGGAATGTTGATATTACATCATATACAAATTGATTGCAACATAGT
TATTTAATGTAACATTCTATTTTAAAAGATAAATTTATCAGAATCATACATTG

CTACAGTAGTCTCCCTTATCCACAGGTTCAATTTTCTATGGTTTCAGTTACCTAC
TGTCACAAGGATCCAACAATATTACATGGGAAAATCACAGAAATAAACAGT
TTGTAAGTTTTTAATTTGTGCGCTGTTCTGGGCAACGTGATAAAATCTCATGCT
GTTCTCTCTATCTTGCCTGAACATGAATTATCCTTTGTCCAGTATATCCACAC
TACATATGCTACCTTCCCATTCAATTTAGTAGCTGTTTTGATTATCTGATAG
AAAAAACACACAGTATATATAGAGTTTTTTATGGGGCAAGGGAAAACCTTTCT
CTTTGTCTCTGAAGATTCACTGAAAACCTCAACTCACAAGGGCAGACTAATA
GGAATGAAGGTAAAAAATATATTAACATCAATGGAGATAACTACAG
AGTGATTATTCCATTGCCATCAATGGACTACAGTGGCTTAAATATCGTTTTGA
GGTTACAAAAGAGTGGAAGTCTTGGGATCTTGGCAAAACAGGTTATGGGAA
GAAGAGAAGAGAAACCCTGGTTAGCAAAGGTCATCTTGTGATGC

The following amino acid sequence <SEQ ID NO. 82> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 24:

IIIMLILHHIQIDCNIVICNILFKINLSESYIATVVS LIHRFIFYGFSYLLSTRIQQYYM
GKSQKTVCKFFVRCSGQRDKISCCSSLCLNMNYPLSSISTLHMLPSHSFSSCFD
YLIEKTHSIYRVFYGARENFLFVLRFTENSTHKGRLIGMKVKKKIYHQWRLQSDY
SIAINGLQWLKYRFEVTKRVEVLGSWQNRLWEEKRNPGQRSSCD

The following DNA sequence Seq-2607 <SEQ ID NO. 25> was identified in *H. sapiens*:

TTTTTCCCCCTGAGTGTTTCTCTCATGCTTTCCTCCAAATGGAGATGGAGAG
GTTTCACCTCACTTTTCTCTAACTCTCCCTAGTTTTTTGGTTTCTTTTCTCCAC
ATCTAAAAGTGTGCAGAATGTCCCTTTAGCACATAGAAAATCTTTTCTTGACC
CTGCCACCTACTTAACTAAAATCCCACACTTTTCTTCTTCTTTAAGATTTCCT
TTATAATGGTGTGTGTCAATGGCCACATCCACCTTATCCATTCCTTCTTAAAG
TTCCAGAAAAACGGTTTTGTTTCCTGTTACTTTAATGGAATTATTTTCCAAAG
ATCAACAGGACTTTCCTCAAGCCCAATCCAGTCGGTAG

The following amino acid sequence <SEQ ID NO. 83> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 25:

FFPLSVSLMLSSKWRWRGFTSLFSNSPFFGFFSSTSKSVQNVPLAHRKSFLDPATY
LTKIPHFSSSFKISFIMVCVNGHIHLIHSFLKFQKNGFVSCYFNGIIFPKINRTFPQAAQ
SSR

The following DNA sequence Seq-2608 <SEQ ID NO. 26> was identified in *H. sapiens*:

ATACATGATAAGGTACATGGATCCAGGGGAAGGATGAAGGGCAGTGTGGGA
TTGCTTTTGAATTTCTCCAAACTCGCCCATAAAAGCAGACAGGACAAACTAA
GATAACTAAACAAAAAACCACAGACAAACTATTACAAACCCCAAAAGA
AGTGTGGTGGGAACAAACATCTGATAGAATCAGACACATTACTGGTGACCGG
ACATAAGCCCTGTTAATGAGAAGCTTACATTTAGGAGAGTCAATTAAGTACA
CGCTATACACAACCTAAAGTGGTAAATGCTACCTTGGTTATTCAACTTCACTG
TTACATGCCTTGAAGTGTGGGGTGCCTGGCCTGAACCATTCTGGTTGTGTTT
GATTCCTTAGGATGCCACCAACAAATAACATTGAGAAATACCCAGCTACTTTT
CATTGTTCTCCAATGGCAGCAAAGTACAAATGATCTCTATGA

The following amino acid sequence <SEQ ID NO. 84> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 26:

IEIICTLLPLENNEKLGISQCYLLVASGIKHNQNGSGQCTPHFKACNSEVEPRHLPL
VVYSVYLIDSPKCKLLINRAYVRSPVMCLILSDVCSHHTSFGVCNSFVCGFFCLVI
LVCPVCFYGRVWRNSKAIPHCPSSFPWIHVPYHV

The following DNA sequence Seq-2609 <SEQ ID NO. 27> was identified in *H. sapiens*:

TCCAGGCAGTATTCTCCATGACAATGAGGAAGGTAAGTCTGCAACAGAAGAA
CAATGGCAGAAATTTTAAGAAAAGTTTACCGCCTGGGACTATGACTCACCTTT
TGGGAGAAAATGTGACTAACCCTTTGTAAGAGCTTGTTGAGAGCTCACTTTCC
TGGGAGGAGTCGGGAGAAGGGGAGCATCAGCTGACGAAGAGGTGAAGGAGG
TACCCAACAAGAAAAGCGTAGAAGGACCAGGGATTTGGGGTCGGGTCTTCCT
CCTGATTCCAAGGGATGGCATAAGATATTGCCAAGTGAAGGAAGCGAAGTAG
AGCCAGCAAAGGAAGGTGAAGTGTGTTTCATTAGAAATAATATGTTGTGAT
AATTATACAAAGTACTAATTAGTAAATTTCTTTCCAACCTCGACACTCCAAAA
ATCCCTGTACTTATATCCCGAAGGCCTCTTCTTCCCCAAGCTGGAAGACACGG
TCACTCATTAGTCACCCACTGTCACAGGAGTAACAGAGACTACAAATATTGG
ACAGGACATAAGTGAGGGTCAAGCATCTGGATGCAGATGCATGACAGGATG
CAAGTCTTCCCAGCTCTCATGGACTTTGCGACAGATGCACAGAGTGAGGTA

The following amino acid sequence <SEQ ID NO. 85> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 27:

TSLCASVAKSMRAGKTCILSCICIQMLDPHLCVPVQYLSLLLLQWVTNEPCLPAWG
RRGLRDISTGIFGVSRLEARNLLISTLYNYHNILFLMKQQFTFLCWLYFASFTWQYL
MPSLGIRRKTRPQIPGSTLFLLGTSFTSSSADAPLLPTPPRKVSSQQUALTKGSHFL
PKGESSQAVNFSNFCHCSSVADLPSSLSWRILPG

The following DNA sequence Seq-2610 <SEQ ID NO. 28> was identified in *H. sapiens*:

ATTAAATGCCTGAACTCCCTTCAGCTCTGAACTCTGTGGTGTATTCTCTGAG
GACATTACCTCTCTAAGGGACCCAAATTAAACAGCTCACACCATCCATCATTT
TTCTGTCTGAGGTTTTATTTCCCTAATCAGATTTGGGTAAATTTTCAGCCTCTC
TCTGTCTCTTACTTCCAATCCAATAAAACCTGTATGGATTTGTTTTGTATTTC
TCTAATGTCATTATTCAATTCTAAGAGTCACTGCCTGACCATTTCCCTGCCTATA
GCATAATTAGCTATTAAAAAGCTACACTGGCATGGTTTTCAAACCTGCATCCT

CTTTTCTGAGGTGGATTGATTCTAAACTGATTAAAATATCTCAGAATTTC
ATAAATTTTAAAATGCAACAGATTTTCAAGACTGCCTCATGACTCTGCCAA
GCCAAGGGAGTTAGCTGCCAACTCTCTCTGACTGCCAAGGAAGCCAAATAAA
TAATCCTGATGGTGGTTTTAAAATGAGAGGCAAGTGCCCATTTCTTAGGTTGA
CAGTGCCACCCTACACATTGACTTCTCCAGGGTTTGTAAGACACCAAGGGTG
ATGTTTCAGATTTTCCC

The following amino acid sequence <SEQ ID NO. 86> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 28:

LNATPFSETLWCILGHYLSKGPKLNSSHPSFFCLRFYFPNQIWVNFQPLSVSYF
QSNKTCMDLFCISSNVIIHSKSHCLTISLPIALAIKKLHWHGFQTCILFFGGLILNLK
YLRISNTIFKMQQIFKTASLCQAKGVSCQLSLTAKEAKIILMVVLKEASAHFLGQC
HPTHLLQGLDTKGDVSDFP

The following DNA sequence Seq-2611 <SEQ ID NO. 29> was identified in *H. sapiens*:

TCCACATTCTTTCTAAAGTTCTGAGCTTTTCCATGGGCTTCCATGGTAGGGAA
AGCACATGGCCTGGGTGTGGGTAGAGCAGGTGCGGCCATTTATATGTATGGT
TCTTTGCAAGTCTGGCATTGTGAAAATGGGTGATGCTTGTATTGTGTTTATTTA
TTCAATCATGTAATAGAAGATGCACATAAGATTATTTTGAAAAGTATGCCTTC
CATTTTCATGCTGAGAATAATGCAGGAAGTTCAGTGTAATGCAGTTATAATA
AAATAGTAGCAAAACAATATTTTGCTTTAAATCATGGAATTAGCAAGTAAAG
ACTAATTGGAAGCCAATCTTTTGCAAATTTTAAATGTAAGTTTATTTGGAG
GATATGACTTGTTGGCCCAGAGTACATATAAAGAACAAAAGAGTATAATTAA
CAACAGTTTCAAATATGGACTTACCAGGCATCTTGATAAAATCAGTATTGAC
ATGTATGTGAATGCCAACATTGTGTTTTTCCAATTCAATACTATGTTATGCCA
TAAACTGGTAGCAGTTATGAAAATTAGAATTGGTTAAAACTGTTGAAATC
TTTAAATTTTCTGTTTA

The following amino acid sequence <SEQ ID NO. 87> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 29:

NRKNLKISTVFNQFFSLLPVLWHNIVLNWKNTMLAFTYMSILILSRCLVSPYLKL
LLIILFCSLYVLWANKSYPPNKLTFKKFAKDWPISLYLLIPFKAKYCFATILLHHY
TELPALFSAKWKAYFSKSYVHLLLDINKHNTSITHFTNARLAKNHTYKWPHLL
YPHPGHVLSLPWKPMKLRRLERMW

The following DNA sequence Seq-2613 <SEQ ID NO. 30> was identified in *H. sapiens*:

TACGTGGGTTTCCCTATCGTCCTCTTCATGAGTTCTTTGTGAAAACAGAAAGA
CTGAGTCTGCCAATAACCAGCAAGAGAACAAGATAAAATAAATAAAATTAA
CCATAAGACTTTAACATATGACAAACAACCTGGTAAGGATTTTCAAAATCTTTT
GGTCAACTTTGATGGTATTTTTCCATACAATGAACTCTAAAATATGAAAAACG
TACATCCATATTTTAGATATAAAAGTCTCTTGACAGGCCAGAAAATGAAAC
TTTAATTTAAGCAATAAAATTCCCCTTTGTAGACTGCAAATGGAGAACATGCT
ATCTAGCTTCATTTTTCTTCAACTTACATAAAAATGAAACAATGGTTAATGTT
CTGGCGGCATCTCTAAACATATTCAGTGAAACAAAATTTCTTACAAATGTCA
ACAGCTTACAACAAATAACATTTTATCCTGTTTAATTATTTAGAAACAAAATC
AGTTATGCTGAGATATGTTTGCATGGGATTTATATACTCTGATCATAGAAACA
AATTATTGACATCTGAATCTGAAAGCTGCAAAACATGATAAAAGACATAATA
AAATCACAGATTTGTTATTCTCTCAGGAACTTTTTCTAG

The following amino acid sequence <SEQ ID NO. 88> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 30:

KKFLREQICDFIMSFIMFCSFQIQMSIICFYDQSIIPCKHISALILFLNNTGNVICCKL
LTFVRKFCFTEYVRCRQNIHCFIFMVEEKSIACSPFAVYKGEFYCLNSFIFWPVQ

ETFISKIWMYVFHILEFIVWKNTIKVDQKILKILTSCLSYVKVLWLILFILSCSLAG
YWQTQSFCFHKELMKRTIGKPT

The following DNA sequence Seq-2614 SEQ ID NO. 31> was identified in *H. sapiens*:

GGTGCCCATGCTTGGTGGTAGGATGTATGAAGCTCCTTGCTCCTCCAGCTGGG
CATCCTGCCACTTGCTGAGCCAAATAAGGAATGTGGGGAAGCAGCAGGCCAC
CAGCCAGATGAGGGCCACTGCCTTCCAGGCAGCCCCATGGGACATGAAGGA
GAGGTAGCGCAGTGGATGGATGACTGCCAGGTAGGTGTGCAGCACAAATGGC
GGTGAAGGACAGGATGGTGCTGGTGCAGGCGGCGAAGACAGCATCAGTGAG
AATGCCACAGGCCATGCGGGCCAGCTCCCAGCCACCCAGGCTGCTGGAGGAG
ATGAGCATGTGGAGGAGAATGTAGGCCAGGTCTGAGAGCAGGATGTTAGCC
GGGAGCAGGTAGTGGGGCTCCTGTGCGAGCCGTTGGTTCCGCAGGATGGTCA
CCAGCAGCAGGGGGCTGACAGCCAGTGTGGCTGCAGCCAGCAGGCTTGAGG
GAAGGAAAAGCCAGTACAGCATGGAGCTGGGCACCCTGAGGTCCCCCAGGC
CCAAGGAAGTGTTGCTGGCTGCTTGGGGCATGCAGGGTGTCTTGCTGATGAG
CTGGATCAGGGCCGGCCAAGCTGTAGTGCCACAGGGCAAGGTGCCAGCTCA
TCCCCCATGCTTCCTGGCAGGGATGGCTGGCTTTGT

The following amino acid sequence <SEQ ID NO. 89> is the predicted amino acid
sequence derived from the DNA sequence of SEQ ID NO. 31:

QSQPSLPGSMGDELAPCPVGTTAWPALIQLISKTPCMPQAASNTSLGLGDLRVPS
SMLYWLFLPSSLLAAATLAVSPLLLVTILRNQRLRQEPHYLLPANILLSDLAYILL
HMLISSSSLGGWELGRMACGILTDAVFAACTSTILSFTAIVLHTYLAVIHPLRYLS
FMSHGAAWKAVALIWLVACCFPTFLIWLSKWQDAQLEEQGASYILPPSMGT

The following DNA sequence Seq-2615 <SEQ ID NO. 32> was identified in *H. sapiens*:

AACACTGACTTCTCTGAAGCAGTTGTCTAAAAGAACCTACACCATTTTTATT
AGCAAAAAGGCTTTTGTAAAAGCAGGGGATAGCAGAAAGAGCTTTGTAAA
AAATATGTCATGGATTTTAGGAGTTTCTAAGAGCAAGAAAACGTTTCTTAAAT
AGAGGAATGAAGCAATTAGAGTTCCATAAAAATCACCTAATGGGCCTTCCAA
AAGGCAAATGCTAAAGCCCCAGAAATCATCACTGAGGAAGTCTGAAGTAGG
AAGAGACCTTGTTCTAGAAAGCCGACAAGGTAGAAATTAAAATGGAACAGG
CCCAACTTGAAATTCCGAGACCAAAAGAGGAGCTGATGACATTGGTGGGAGA
CAGGTGTGGGAATAAAGAATGTTGGTAGATTCTAGAGACATTCCAGCGATAA
CACAGACAGGACTTTGTGACTGACTGTATGGGGCAGCTGCAGGGGTAGGAGA
GGAGGAACGATTAAGACATGATGAACTGGGCTATGAGTTGGCAGCTCCATTT
ACTCCAGAGAACACAGGAGGTGAAAATCATGGGAGACTTGATGAAAACACT
TTGAGAGGCACCATGGGGATAAAAGCCAGAAATAAGGTGGGAAATGGTGGA
AGCTATTCAATTCTAGAAAAGAGGGTGGGAGGATGAGCATAAGTTAACAGGA
AACAAGTTAATTTTTTAAAAGTGCT

The following amino acid sequence <SEQ ID NO. 90> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 32:

HFKINLFPVNLCSSSHPLFNLPPFPTLFLAFIPMVPLKVFSSSLPFSPPVFSGVNGA
ANSPSSSCLNRSSSPTPAAAPYSQSQSPVCVIAGMSLESTNILYSHTCLPPMSSAPL
LVSEFQVGPVPFFLPCRLSRTRSLPTSDFLSDDFWGFSICLLEGPLGDFYGTLIASF
LYLRNVFLLETPKIHDIFFTKLFLSPAFNKSLFAKKWCRFFTTASEKSV

The following DNA sequence Seq-2616 <SEQ ID NO. 33> was identified in *H. sapiens*:

TTTCCCAGATAAATTGTATGCACAGTAACTGGTGTTCAGTATACCATAGCAT
ATATACATCCATTTGGCACACTGCAGGTGCCAGTGGGACAACATACCAGAGT
GTAAGTCTTCCTGATCATTTTCATGATGTCCTCAGTTATTTACCTTGTAATAAG
CTTGTAACGCTCTATGATTGTTTTTGAGTCATCCCAATGCAGTCATGTAATAA

CAACATGTATTTTAAATGAAACTTGGGGATTTTCCTCCATACCTGAATCTCTA
GTATTCACATAAATGAAAAATCAAAATTAGGATAAGTTAGTGTCAAACATTA
ATGGATTTTACAATGCTAATTGGTGTTCCTTTTTAAATTATTGCTGCCTACAG
ACACATAGCTATAGTTCCATGCACTTTCAACCACCAATGCTGCCAGGCTAGTA
AAGCAGTTAATGTATATTTGGGGTTAATTATCAGAATCACCAGAAACAATTTT
TTTAATTTTAAAATATTTTATTTTCCACAGATTATTGGGGTACAGATGCTGT
TTGATTACATAAGTTCTTTACTGGTGATTTGAGAGATTTGGGTGCACCCAACA
TCCGAGCAGTATACATTATTCCTATG

The following amino acid sequence <SEQ ID NO. 91> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 33:

FPRIVCTVTGVAVYHSIYTSIWHTAGASGTTYQSVSLPDHFHDVLSYLPCKLVN
VYDCFVIPMQSCNNMYFKNLGIFLHTISSIHINEKSKLGVSVKHWIFTMLIGVPFI
IAAYRHIAIVPCTFNHQCCQASKAVNVYLGIIIRITRNNFFNFNILFFHRLLYRCC
LITVLYWFERFGCTQHPSSIHYSL

The following DNA sequence Seq-2617 <SEQ ID NO. 34> was identified in *H. sapiens*:

CGGGTTATTTAGAGAACCACTTGAAATACCACCTCCTTGGTAACACCAGCTCC
CTCCACCCCCTGAGCTCACGGTCTCTTCCTGTGAGATGCAGCACCAGGTAAG
GTCATTAACAACCAGGTTTAGAGTAAACAGTGCTGGGCTGTATTTCTGATCCT
GCCTTTCCTAACTGGGTGCTCTTTGGCAAGTTATTAAGTTACTTCATCTGTAC
AATGGGTTACACTTATGCCTTTTACATATGGTTGTTGCGAAGATTGAGTGATA
TGCATACCAAAAATGCTGAGCAGAACACCTTGTCATATCTTTCCTCTCTGTT
ATTAAATGGAGGCCTTTAAGGTTAAGTAATTTGTTATTGTTGTGGTTAATTTT
AGTCCTCTGAATTTAATCTAGTACAAATTGTGCTGCATTTGGCACATGGTAC
ATGTTTCATGAATATTGAGTGTTGTATAAAGGAATGAAAAATCAATTACATGA
AAAGAAATTCCAAATCTTACATTTTACAAACACAGACACAAAGAATACTAAG

ATTTA ACTCAGGGGCAAAGTTAAGATTTGGCCACCAGCACGTGGTGAGCTT
CCTTGAAAGTTTGTCTTCTGGC

The following amino acid sequence <SEQ ID NO. 92> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 34:

GLFREPLEIPPPWHQLPPPELTVSSLDAAPGKVINNVSKQCWAVFLLPFPNWV
LFGKLLSYFICTMGYTYAFYIWLLRRLSDMHTKNAEQNTLSISFLSVIKWRPLRLS
NLLLLWLILVLILYKLCCIWHMVHVHEYVLYKGMKNQLHEKKFQILHFTNTDT
KNTKILRGKSDLATSTWASLKVCFW

The following DNA sequence Seq-2618 <SEQ ID NO. 35> was identified in *H. sapiens*:

ATTCTAATGGCATTAAATCCATAGCATTATCTCCATCTCTGTTTTAAATATCATG
CATCCTCATTCTATGATTCAATTTAAAGGAATCCTTCAAAGGATCAATCTAA
ATAAATAACAAGTTAGCTTTCAGGCAAACAAATAAATTTGCTTTGTTTTATAT
TCACCATAAATATTTCACTTAATTACTGAGGTACCTTGTTTCAGGAAACACAAA
ACAACATTATAAATTAATTAGCACTGTCCCTGCTGACGTTTTAGTCCTGTGGA
ATGCAAAAGCTAAAAGTAAAAACAGGCCATGAAGCCCAACCAGAGCACACA
TCGTATGCAAATGATAAAGCCCACAAACATCATGGGATCATTCTGGGACAT
TCTGAATCACCAAATTTTGTCTTTAATCAAGTATTGCCCTATTTATTTTCAA
TTCAA

The following amino acid sequence <SEQ ID NO. 93> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 35:

LNLKINRAILDRQNFGDSECPRNDPMMFVGFIICIRCVLWLGFMACFYFLLHSTG
LKRQQGQCLIYNVVLCLNKVPQLSEIFMVNIKQSKFICLPESLVIYLDSFRIPLNII
EGCMIFKTEMEIMLWINAIR

The following DNA sequence Seq-2619 <SEQ ID NO. 36> was identified in *H. sapiens*:

TTTGGGTCTAGAATCCCCCTTGGTTTGGGAAGCATCCAGAAGGAGCTTCCATCC
CCATCCATTTCTTGCTCACTTCCTCCTCTCTAGCTTTGTTTACATGTCTCTCGAT
ACCTAGACAGAGGCAGAGGCATGGACTTCTGGTTCTAATCATTCAAGCCTTA
CACGTCCTTCAAGGCTCCATTGAGAATTATCTTTCCTCGGGGAGTCTGCTTCT
CCTATTTTCAGGATTTACTGACTATTCTCTTATCTCTTGTAACATTTAATATCCC
ACTCCTTAGCATTAACCTTTTAAACTTGCTTTCTAATCCTGAGGTTTGTGTTCT
TTGCCTTGTAATAATTCTTTGTAAATGGCCAGCCCAGTACGTAGCCCAGTCCCA
AGCACCACGTAGGCAATTGAAGGAGCTGGGACAAAAAGAGTTCTTTGTTTGA
ATTTCTTTTACTGCTCTGAGTTTACTCTGTATTTGCACATGAGTTTAAATGTTT
TGGGGCCATTGAACTATTTGAGAATCTAGAAGATAATACACCTCTTTTCAGAA
AAACACATATGAATACACACACACACATGCCACCTACACACACAATTTTGCA
TGTAATTTTAAGGATTCATTAACCTTAGCTTACCAGACTGTAAGTTCCTTTGC
ATATT

The following amino acid sequence <SEQ ID NO. 94> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 36:

YAKELTVWAKVNESLKLHAKLCVVACVVCVYSYVFFKEVYYLLDSQIVQWPQNI
KTHVQIQSKLRVKEIQTKNSFCPSSFNCLRGAWDWATYWAGHLQRILQGKGT
QTSGLESKFKSCGVGYMLQEIRESVNPEIGEADSPRKDNSEWSLEGRVRLELEPE
VHASASVVS RDMTKLERRKARNGWGWKLLLDASQTKGILDP

The following DNA sequence Seq-2621 <SEQ ID NO. 37> was identified in *H. sapiens*:

GCAAGTTATCTGTATTTATCCCCCTACAAACACACACTCCTAACATACAGTGG
TGAGAGAGGAACAACATAACTGCAGAGGAAGTAAGTGAGAGACACAAAGCA

GTCATTGGTTCATTGCTATAATGAAATTCTCCTAGACAAATGCTGCCAGGATC
TCTTCCCTGGGGATAAGGTCTAGTTATCTTCTGGAAGTGGTTTCCAGCTCAC
TATTCTCTACTGTATAATTACAGTGACTCCCTCATCCATCCTCTTGTCTTCTCA
GATCTTAACTTTATCCTCTAGACTCCAGGCTCCTCCTCTGAGATGTTCTCACTT
TTCTGCAACAAAAGCTGAGTCTATTTCTCAATCTGTTTGCTGTCCATAGAAAA
TGGAAGGTTTCAGAGGCTTTTATTCAATTTTCTCAGTCTCTTTATTGCAAGCTG
GGTCCCATTTACTTATATAACTCTTTTAAAAAGTTTTGTGGGCTTTCTATGTA
TCAGATAATAGACCACTTCATTTGATAAAAAGCCACATTCTTTGTTTTCCAGA
CAAGCTTTCTATATTTTGGACAAGTAAGGCCACTTA

The following amino acid sequence <SEQ ID NO. 95> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 37:

KLSVFIPLQTHTPNIQWERNNITAEVSEERHKAVIGSLLNSPRQMLPGSLPWGGLV
IFLEVVSSTLSTVLQLPHPSSCLLRSLYPLDSRLLLDVLTFLQQKLSLFLNLFVH
RKWKVQRLLFNLSLFIASWVPFTYITLLKSFCGLSMYQIIDHFIKATFFVFQTSFL
YFGQVRPL

The following DNA sequence Seq-2624 <SEQ ID NO. 38> was identified in *H. sapiens*:

TTATGGTGTTTGTAAGATCTTATTGCCCAAAGAGTCTGTTCTGTCCATCTTATG
ATATCTGTTTAAACATTAATGATGCTCAGTTGTGTCTAGACCCTAAAAGAAGA
AGTTTGTATGACTTTCCATGCTGTTATGGTCAGGAATTTAGTTTTAAGCTTTTT
TGGGGCCTCTAAGCCACAAGGGGATCTGTTTCAGTCAGTTCAGTAGAGGGCTT
AGGATTTATCATCTTTAATTCACATTCCCCCATTTTGGTCAAAATATGCCAAA
AGTAGCATCAATAGCCAAGCTCTTATTTTATTCCATATTATTACCAGGTGGTG
TGGCTATCTATCTCAGATATATTCTGTTCTTCAATGGGACCCATATAGCCAAG
GGAATTATAGCCAAAAGACTTACAGCCAATTAAACATTCTAGGACAAAAGGG
AATGGAGGTGGGAAGGCATTCATTATTCCTTAAAAACCTTTTGAGCAATATA

AGAGCCACAAACCAAAAAGCCAAAAAGTAAGCTTACAAAACCGATTTATCTAT
AAGTTCTATGTGTTGGGCCATCGGCTCTTAGGCATCTGTGAGCCCATCTTTTTT
GGAGGATCTGAA

The following amino acid sequence <SEQ ID NO. 96> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 38:

MVFVRSYCPKSLFCPSYDICFNINDAQLCLDPKRRSLYDFPCCYGQEFSEFKLFWG
LATRGSVQSVQRADLSSLIHIPFFWSKYAKSSINSQALISFHIITRWCGYLSQIYSV
LQWDPYSQGTYSQKTYSQNLILGQKGMEVGRHSLFLKNLLSNIRATNQKPKSKL
TKPIYLVLCVGPSALRHLAHLFWRI

The following DNA sequence Seq-2625 <SEQ ID NO. 39> was identified in *H. sapiens*:

AAGGCAGAGGGGGCCAGCAGGGCGGGTTACAGAACCATGATGTGTTTTTAAC
TGGACTCACTTCTGCCAGTATCTGCCTGACTCTTCAGCCCATGTCTCTTTTCCT
TGTTGTAATACTAATGGGGGCATTAAGGAGCCAGAGAAGGGGCCTCCGACGC
CACTGCTTGTACCTCTGGAGTTACATTTAGCGGCATTTATATTTTGTCATGTGA
AATTCGAAATCCTCATCCAAAATGCAACTGTGGGGGAACCTCTCATAGGAATT
TCAGCCAATTCTGGCTCC

The following amino acid sequence <SEQ ID NO. 97> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 39:

GRGGQQGGLQNHDVFLTGLTSASICLTLPMSLFLVVILMGALRSQRRGLRRHC
LYLWSYIRHLYFVMNSKSSSKMQLWGNSHRNFSQFWL

The following DNA sequence Seq-2626 <SEQ ID NO. 40> was identified in *H. sapiens*:

CCCTTCCTCCCCAGCCATACCGTGACCCACCCATAAGCTGGCCCCCTTAGCTC
TGGCTCACCTGGCTCAGACTTAGAGGTGGCAGGATTCCTGCTGCTCAGGAAA
TAAGGACTGCTCTTGAGCTCCTCACAGGCCCCAGGAATCCCAACAAAAGCCA
ACCAAGGCTACCTTCAGGCCTTCCAGAAGGGGGTGGTAGTGTCTCATCAGG
TCCCCAAGTTTAGGGAGAGGGCAGCTGGGCCCAGGGCCCTTCTCCTTGTGG
CTCAGGATTTAGCCCCACTTACCATGGTGCAGCCCCAGCCTTCCAGCCAACCC
AGCATTAGAGGCAGTGGCTCCTCTTAATGCCAGGCCCTAGTTGGCTCAGGCA
TAATCCAGCCAGGAAACCTCTCACCTTTCCACAGCAATGGCCACCAGTGTGA
AAACGGAAGCCGACACAGACATGCCCTGCACCAAGCCGCTCATCTTGCATGT
GGCATTGTCTGAAGGGCCACCCTGCAATGACAGAGGCCCCACAGAGTGAGA
GATGCCACGCATCAAGAGCCAGAGACTGAAAGCCCTCCAAGCCAGGTCCCC
TCTGAGCTTGGATCTTTCCTCCATGACCTGCTAGGTGTTATCTGGTCTCTGCT

The following amino acid sequence <SEQ ID NO. 98> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 40:

SRDQITPSRSWRKDPSSSEGTWLGGLSVSGSCVGISHSVGASVIAGWPFDNATCKM
SGLVQGMSSVSASF~~TLVAIA~~VEREVSWLDYAANGLALRGATASNAGLAGRLGL
HHGKWGILSHKEKGPGPSCPLPKLGEPDEDTTTPFWKARPWLAFVGIPGACEEL
KSSPYFLSSRNPATSKSEPGEP~~EL~~RGPAYGWVTVWLGRK

The following DNA sequence Seq-2627 SEQ ID NO. 41> was identified in *H. sapiens*:

AAACTCCCAAACGATAGTAACTTAAATAACTTAGGTCTTTAATACTCTCTTCA
GTAAAAGAATTCTAGTAGTTGGAGAGTCCACCATCCCTAGGAATGTAGTTCTT
GTCCTCATGGTTCAATATAGCTGCTGATGCTCCAGCCATTACAGCCACATTCC
AGACAGCAAAATATGGAAAGAGAATGAAGAGAAGAAGAGCGTGCCTAGGAG
TCCCATGTATTATTTCCATATATATTTGGGCAGAACCTAGTCACAGGGCCACT
CCATACGTATCTGTTAGCTATTGCTACATAGCAACCACAAAATTTCCATGTCA

TACAACACATATCTGCAGGTTGGCTAGGGTTCAGTTCCTCCATGCTGGTCTCA
GACAGGCAGTTCTGCTTCGGGTTACAGTGGCTGAGCTGATTCCATTTCTCACT
GCAGGTCTGTGTTTCAGTTGAGTGACTGTCCCATGTGCCTTTCATCTTCCTTGG
GTTGATGAAAGGAAGCCACATCTTTCAACAGGGCTAGCCACATCTGTTTCCTC
ATGGCCCAAAGAGACACCAAAGAGCAGATAGAAATAGGTGAGACCTCTTAA
GGTCTAGACTCAAACTGGCACACTGCCACGTCTGTTTACAAGCTATTAGCC
AAAGCATAGATGCATTACCAAGCCCCAAGTCAAGGGCAAGAAGTACAATCC
ACC

The following amino acid sequence <SEQ ID NO. 99> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 41:

TPKRLKLRSLILSSVKEFLESPPSLGMFLSSWFNIAADAPAITATFQTAKYGKRMK
RRRACLGVPCIIISYIWAEPShRATPYVSVSYCYIATTKFPCHTTHICRLARVQFLH
AGLRQAVLLRVTVAELIPFLTAGLCFSVTVPCAFHLPWVDERKPHLSTGLATSV
HGPKRHRQADRNRDLLRSRLKTGTLPRLFTSYPKHRCITKPQVKGKKYNP

The following DNA sequence Seq-2628 <SEQ ID NO. 42> was identified in *H. sapiens*:

ACAATAATTTGTTGTATATTCCAAAATAGCTAGTAGTGTAAATGTTTCCAATAC
AAAGAAAAGATAAATGTTTGTGGTGATGCATATTTCAAGTACCCTGATCTGA
TAATTGCACATTGTATACATCTATCAAAATATCAGCAGTACCTCCAAAATATG
CTCAATTATTGTATAAGTACAAAAAATTTAAACAATTATAATGTATTATTTA
TTTCTAAATGGTTTATTAGATTTAAAATTTTCTTGGTGTTTAATTTTTTCATAT
ATTACCTTATACCCTTTAACTTCCTAAAATATATTAGGTCTTCATATTTTAGAG
TAAAATTCTGAAAATCCTTTGAGTATCTGATTTTACAATCTTTTCTTCCACTGA
TTTTCCCTTAGCAATGGCCTGTTTAAAGTGTTGTGATGATGTTACTGAGAAAT
GGGCTGGCTACCTGATGCACATAGAAGCCAATACTATGGCAGTGGTTTTCTA
GAAAAGAAAAGGCTTTACTGTGAGTCTACTGGCAAGGAGACAGGTGGCAAC

ACTCAAATCTGTCTCCCTGAACTGAGGATGGTGGGGT

The following amino acid sequence <SEQ ID NO. 100> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 42:

TIICCIFQNSCNVSNKKRMFVVMHISSTLILHIVYIYQNISSTSKICSIIVVQKNLNN
YNVLFISKWFIRFKIFLVFNFFIYYLIPFNFLKYIRSSYFRVKFKSFEYLILQSFLPLIF
PQWPVSVVMMLLRNGLATCTKPILWQWFSRKEKALLVYWQGDRWQHSNLSPT
EDGG

The following DNA sequence Seq-2629 <SEQ ID NO. 43> was identified in *H. sapiens*:

CCTCTTACTTGGGCCCCGTTCACTAGTCCTTCAGCCAACTGCCTCACATGCT
ATTCCCAGTATGAAAATCTTGCCATTCCCTTTATCTTTTTTCTCTTCTCTCATTT
ACAGCCCTGTGCTAGTTTCTTCATTCCCTTCAAGTTCTGGCCAACTTTATTTA
CCTCTTGACTGACCACTCCATCTAAAATAGTACTCATCACTGTGTATCCCCTC
AACACACTTTATAGGTCATGGCCATCACCTGATAATGTGTTATGTATTTTTTG
GTTTACTTGTTGTGTTAGTTCATTCTTGCTGTAAAGAAATTCCTGAGAC
TGGGTAATTTATAAAGAAAAGAGGTTTAATTGACTCACAGTTCTGCAGGCTG
TATGGGAAGCATGTTGCTGGCATCTGCTTGGCTTCTGGGGAGGACTCAGGAA
ACTTACAATCATGGGGAAGGTGACGGGGGAGCAGGCACATCTGACATAGCA
GGAGCAGCAAGTGAGCAAAGGGGGACGTGCCACACACTTCTAAGTAACCAG
ACCTCATGAGAACTCACTATCATGAGAACAGTACCAGGGGATGGTGCTAG

The following amino acid sequence <SEQ ID NO. 101> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 43:

SYLGPVHSFSQTASHAIPSMKILPFPLSFFSSLIYSPVLVSSFPSSSGQTLFTSLTPS
KIVLITVYPLNTLYRSWPSPDNVLCIFWFTCCVSSFLHCCKEIPETGFIKKRGLIDS

QFCRLYGKHVAGICLASGEDSGNLQSWGRRGSRHIHSRSSKAKGDVPHTSKPDL
MRTHYHENSTRGWC

The following DNA sequence Seq-2630 <SEQ ID NO. 44> was identified in *H. sapiens*:

AGTATAACAATTCAGTCTTTACATCTCTATATTTTGCTTATCTCAAGTATCCA
CTTTGTCTGGTATAGTGTGCTCATTCCACAGTTTTTTGGCTGTCCTGGGAACAA
CAATCTAGTGCAACTCCAGCAATGTGAGTTATAGTGCAAATGTCAAACCAGA
GCAGCATCACCATCTAGAGGTCAAAATGATAACTGCAAACCTTCTCACCTTTA
TGAGCCTTCCGTATTCTGTATACATAGCAGTTTATGTGAATGTACAGAAAATA
ATGTTTGCTATTGTTTTCTCTCCAGTTGGGTTTCCAGAAAGAGATCATGGCAT
AAAGCAGGAACCACCTGTATTTACAGATGGCATAGGGAAGCATAACATCGCAG
AGCCATATATCAGCAGCACTACAGCATGTTTCAACCAAAGATGAGCCTCCCA
CATGTCAGACAAACCACCTACATTGGGACCACAGCAGTGACAGTGTTTTTTA
GCACATTCCTGATAATGAAATCTATGTTGAACTCAACATGAATGGCTTTTCCT
TTCTCTTGGCAGTCAACAGCCTACACCATTCTGCATTTGACTGTTTAGTTTATT
CTCCCCTCTGGAAAGGCATGACTATGGAAACAGAGTAGAGGATATTTTGGGG
ATTTATGAAACTATTAATATAATTTACTCTCATTGCTGTGCTTTCTACAAA

The following amino acid sequence <SEQ ID NO. 102> is the predicted amino acid
sequence derived from the DNA sequence of SEQ ID NO.44:

YNNLLYISIFCLSQVSTLSGIVCSFHSFWLSWEQQSSATPAMVIVQMSNQSSITIR
SKLQTFSPALFRILYTQFMMYRKCLLLFSLQLGFQKEIMASRNHLYLQMAGSIHR
RAIYQQHYSMFQPKMSLPHVRQTTYIGTTAVTVFFSTFLIMKSMLNSTMAFPFSW
QSTAYTILHLTVFILPSGKALWKQSRGYFGDLNYYNLLSLLCFLQ

The following DNA sequence Seq-2631 <SEQ ID NO. 45> was identified in *H. sapiens*:

TCAGCTTATCTGGTCAATAGCTTTTCGCTCTGTTGCATACCTTGAGCATATGC
ATCAGCTACAATGTTTATAGGTAGCTGTATGGTGTGTTGACACAGCACATGGCG
TACCTTTAAAACAATTATAGCACTGGGATTTGGATCTGAATTTATGTTGCCTT
GTCAAAGTTTCCTCTTTGTAACATGGTAGCCTTTTAAATATTAGGCAGCTACC
TGCAACACTGGGCATTCAGACTAACCCATCAGGCTTATGGCATCTTGCTCTTC
TCGTTCCCTCTCTGTGTGTTGGTACATCATGTTAGGTTTATGCAGTAGACGTA
GATAGGAAGCAAGCCAATTGGCTACAGGGTATTGAAAGTCAATTGCTGAGAA
TGATAAAAGACAAGGATAGCCTTCTCTGCAAAGAAGTGCTAAGAAGATTCTA
AACGTATACAAGGATCTCAAGAGAAACAGTCCCAGATAGCAACACTATTTCAG
TCTTAGACTATGGCTGATACTATACACTTCTCCAGCTCCTCTGCTCCTCAGAG
CAGAAAACAGAAGATTTTGAATGAGCACCACCCAGCTCCTGAATACAATG
GTACCTTTCATCTATTTCTGGTGACTTTTATTTTCTTTTGTGCTGGATCCCCTA
CATAATTGTAAGCATATCGCAGGCAAGCACAATGGTAAACAGTGGGTGGACG
CTTCCTC

The following amino acid sequence <SEQ ID NO. 103> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 45:

SLSGQLFALLHTLSICISYNVYRLYGVHSTWRTEFKTHALGFGSEFMLPCQSFLFVT
WPFKYAATCNTGHSDPIRLMASCSSRSLVCWYIMLGLCSRREASQLATGYKSI
AENDKRQGPSLQRSKILNVYKDLKRNSPRQHYSVLDYGYTLLQLLCSSEQK
TEDFEMSTTPAPEYNGTFHLFLVTFIFFCCWIPYIIVSISQASTMVNSGWTLF

The following DNA sequence Seq-2632 <SEQ ID NO. 46> was identified in *H. sapiens*:

ATAGAACTTGATTATATTGGTATTTTTATTTCAAATTTTCAATTTTGGAAATGG
CAGAATGTTGCTATTGAAAAGTGTCTTAAAGGTCACCACTGTAACCCCTTCAT
TGTGCTTGAGACCTGCTCAGCTCCTAAATTTAACAGGGGACGGATCTGAGAA
ACTGACTCCAAGTTGTAACCTCTTGCTTAGTTTTCTTTCTAGGGAGATATCCGT

CTCTCCAAACCTGTCGAAATCTAAATTTATTACCTCTTACCTAATACTTGGTCC
CCTGTGGACTTCACTTCACTGTTTGTGCTAATAGCCTTTTCATCACCATCTTGA
CTTTGGATTCTAGAGCATCACCTACTTCCCCATTTTCTGTGACCCTTACATTCC
TCCTGTCAGTCACTATGTCTGATTTATTGTTCTCCCCTATCTTTTGGCCTTTGC
AAATCCTCAAGCCCTCATTCTGGTTCAGACCTTTAAAAGGCTGAGTTACTGGA
GTATAGTGTTACCCAAAGTGAGTTGTTCCATAAAAAATTAGTAAGTTGGAAA
AAAAAACAAAAACAAAAAATACCCTACCCATAAAGTTGGTAAATGTTTCCT
GTAAAAAGGGTTCCTTGGCCAGGTACATGTTAGAATAGCTGGTTAAGTTTCTT
TGCAGAAAGACTTCTCCTGGCCTTCATTTGTGACTGTG

The following amino acid sequence <SEQ ID NO. 104> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 46:

RTLYWYFYFKFSIFGMAECCYKVSRSPLPLHCADLLSSIQGTDLRNI.QVVTSCILV
FFLGRYPSLQTCRNLNLLPLTYLVPCGLHFTVCANSLEFILTLDSPASPTSPFSVT
LTFLSVTMSDLLFSPIFCPLQILKPSFWFRPLKGVTGVCYPKVVPKISKLEKKTK
NKKIPYPSWMFLKGFLGQVHVRIAGVSLQKDFSWPSFVTV

The following DNA sequence Seq-2633 <SEQ ID NO. 47> was identified in *H. sapiens*:

GCAATTAAGTTTTGTACTGTATGGACAGTGTGAAAAACATTATGGAAAAACA
ACTTGAAAGAAAATGTGACAGAATTTCTCCTAACAAATGTCATTGCTTCAACCA
GCTACAAATTTCCAACCTAGTTTCTTTCTTTTGTCTTTTCTTCTTTTGTCTTTGA
TACAATCATACAGCCTCTCTTCCTTGAAGAGATAATAAAAGACTAACAGTTA
AAAGATCTGGAAGACTCATATTCTTTTCTTTTCACTGGCTACGGTTTTGAAA
AGAGGCTGTTGGCTTTTGATTTTTTCTTTTGGGTTCTTACATCGCCCAATTCA
AACAGGTCTGCTCTCAAAGAAAACAAATCAAATGTCAAGACCTGTGAAGC
ATGAAAAATAAATTGCTTTTTTCCAACCTCAAAAAGCACCAGAAAAGCATTA
TTTTGATCTTTTATAAACCTCTATCCCCTATCCTCTAATCTATAGATTTCACAG

AATGTTTATATATTCTTCTGTATAATACAGGAGATCAAACCTTATTATGAATA
AATTGAATTGAACCTGTAATACAATAATTTAACTAGTGTTATTTTGGAG
TTCAACTAGACACATATAAAACATTTCAAGTGAGATGACACAAATTCCTGGG
GCTGCCAGTATAAAATAAACAGTCCAGTAAGCTGCATCTACCATGCCGTAA
GGGACTCTGTCCTTTTAGCTGGTGGGAGCACAGGCTTCATAA

The following amino acid sequence <SEQ ID NO. 105> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 47:

MKPVLPAPAKRTESLNGMVDAAYWTVYFILAAPGICVISLEMFYMCLVELQNNTS
LNISCITGSIQFIHNKVSPVLYRRIYKHSVKSIDRIGDRGLKIKINAFVLFGVGKSN
LFFMLHRSQFFVFFESRPVIGRCKEPKRKNQKPTASFQNRSQKRKEYESSRSFNCS
FISSRKRRCMIVSKTKEETAKERNVGNLLVEAMTLLGEILSHFLSSCFSIMFFTLISI
QYKTL

The following DNA sequence Seq-2634 <SEQ ID NO. 48> was identified in *H. sapiens*:

TCCTGAGAAGACCTGCAGCACAGGGTAAAATATGCAAGGGAGGGCCATATA
ACTTTTATCTTTACTTAATTTATTTAATTTACTAATTTTAAAGTATTAACCTAT
TTTGTTTTTATTAAATCTCTGTGGTTGCACAGAATTCAAATTGCAGCAAAAAT
CATTCAGGGCTAAACACTGGAAAAATCTCTTAATTCTAAGGTACATGACACA
ATGGACTCAAAAACAGTTGCTGAGTCCCTTTCCTGGAGAAATTTAAAGAAA
GGGTATAGAAAAGTTTTGACCAATTCCACCCAATCCTGCATCCCCAATTCCAA
TCTCAAGGACCAGTTTCCATCTGATCTCTCTCCACCTACAGATGGTGGTCCTG
AATCTCCAAATCAACAAACCAAAACTGAATCCATCATCTTCTCACACCTGG
TTTTTCCTTCCAACCTCCCTCATTTCTGTGACCTGCCCCATAACCTTACCAGGAA
TCCAGCCCCCAAAGCAGGGTGGACTCCTCCCTCTGCAATGGACACCAGGGAT
TCAGGTCCTGTTGCTGGCTCCAAAATGCCACAATGCCCTGTTCTCCCAAATC
AGCACATTCAACAGT

The following amino acid sequence <SEQ ID NO. 106> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 48:

SEDLQHRVKYAREGHITFIFTFILIYFLSINLFCFYISVVAQNSNCSKNHSGLNTGKI
SFGTHNGLKNSCVPFTGEIRKGIEKFPIPPNPASPIPISRTSFHLISLHLQMVVLNLQI
NKPKTESIIFSHLVFPSNSLISVTCPITLPGIQPPKQGGLLPLQWTPGIQVLLLAPKC
PQCPVLPNQHIQQ

The following DNA sequence Seq-2635 <SEQ ID NO. 49> was identified in *H. sapiens*:

TTTGACTTAACCCTTTGTAGCCCAGGTAATAAATCCAAACTCAGCAAGTATGG
GCTGGACCCCAGTAGCTCTGTGGTTGCCACTTTTTGGCCCATATTGAACCGAC
GTCCCCTTGGCATCTACCAGGGACTCCTCAGGGAGAGTGTGGGAATGATGGG
GGAAGACTCGTCACTCTTTTGTAGAGCGTGGGGCAGATGATAGCAGAGACCT
TCCAGGGCCCAGGGCTGGGGTCTTGTCTTCCTTGGATGTGGTCTAGCGTTGCT
CCAGATGGTGGGTTTGTGGCAGGTGGGGCAGAAGCAGATGATGCAGTTGAGG
CGGGTCTCTGGTAGAGAGTGATGTCAAAGATGAGCACTCCTTTTATCCCCTGA
CTCTTCTGAGGATGGCTGCCTCCTTGGTGAGCCACTTGGAGGTCTCAGGCCGA
TCATGCGGGATGGTGGCCCAGATGAGGAAGGGGATCCAAGGCGGTGGCCTTC
CCAGATGCACTGGGCCCCAGCCCTTCTTCCTAGCTTCGGCTGATTACTGTGGG
CTTCAGCAACCAGGGCCTACCTGTAGGTCTCCACATTTGTAAGCACACAGA
ACCCAGTGCATCTTTGTGCACTCAAATCGCCCTTGATCCAGGGGTATTTTCTC
ATTCAGAACACACTTTGAAAGGCGGCCATTCCCCTTCTGGAGAAAGCCTGGA
GAATCTACAGTGCCCTTAATTACAGTG

The following amino acid sequence <SEQ ID NO. 107> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 49:

HCNGHCRFSRLSPEGEWPPFKVCSEENTPGSRAIVHKDALGSVVLTNVETYRAL
VAEAHSNQPKLGRRAGAQCIEWEGHRLGSPSSSGPPSRMIGLRPPSGSPRRQPSSEE
SGDKRSAHLHHSLPETRLNCIICFCPTCHKPTIWSNARPHPRKTRPQPWALEGLCY
HLPHALQKSDESSPIIPTLSLRSPWMPRGRRFNMGQKVATTELLGSSPYLLSLDLL
PGLQRVKS

The following DNA sequence Seq-2636 <SEQ ID NO. 50> was identified in *H. sapiens*:

AGATGCCCAGACACCTTCACTTCAGCAGACAAGGGGCAGAGTCCTGGAAAAT
CTAGGCAGGGAAGACTTGCGCCTCTAAGAGTAAAAGGCCTCCCAGAGAGGA
CATGGATGAAAGGAGGACCACCTTCCAATGCCACTCTCCAAAGCAGGAAACA
TCCAAATAAAGGATGTTGATTTTCAGGACCCCATCCCTTCATGAGTGCTTACA
CAACTGGTATATCCTCTCCCGTCTCTTCCTCTGGTAGCCAAGACCTTATACCA
GTTTGAGTATCCTTTATCCAAAATGCTTGGGGTCAGAAGTGTTTTGAATTTCA
GATATTTTTTAAATTTTGGAATATTTATATCATACCTCTTGGTTGAACCTTCCAG
ATACAAAAATCTGGAGTCCAGTGAGTATTTCTTTGAGTGTCATGTCAGTGCT
CAAAAAGTTTTAGATTTTGGAGCGTTTCAGATTTTCAGGTTTTTGAAATTGGAA
TACTCAACCTGTACTCTCTGTCCTTGTCTACCTCTACCAGACCCTCCCCCACA
GGAATGAATTTAGATCTGAAAA

The following amino acid sequence <SEQ ID NO. 108> is the predicted amino acid
sequence derived from the DNA sequence of SEQ ID NO. 50:

FRSKFIPVGEGLVEVEQGQRVQVEYSNFKNLKSETLQNLKLFEHHDTRKYS LDS
RFLYLEGSTKRYDINIPKFKNINSKHFPQAFWIKDTQTGIRSWLPEEETGEDIPVVA
LMKGWGPENQHPLFGCFLWRVALEGGPPFIHVLSGRPFTLRGASLPCLDFPGLC
PLSAEVKVSGH

The following DNA sequence Seq-2637 SEQ ID NO. 51> was identified in *H. sapiens*:

TCATCCTCCGCTGTCTATTTTGAGCTGTGAGTTTATCCACAAAGGAACAGAGC
TGAAATGAAACAATTTTACCACAGTAACTTGTTAATCGGGCATCCTTTAAGTA
TGCTGGATTTTAACACTGGAAGTTCTTTTGAAGACTCTGAAAGTTTTCTTTAAT
CGTCATGAGATTTTTCCAACTAAGTTCATGATATGGATTTTTTTTCACTGTATC
TAGCTTAAGTCACATTTCAATTCAAATCTAAACCTAAACTGATGGAGCTGGA
GCTAGTGACTTCAGGCAATTGGCATCTTTTCGCTGAATACAAACATCCTATTT
AAAAGACCAAACACATGACTCCATTCAAAAATTAACAGTCATGTGTAGTG
AAACAGCAAGAACACGGTCTGAGAAACGTGTCCTTGACACACAGCGTGAAT
GCACTCACGCAAGCCTAGACGGTGCGGCTGCCGCACACCAGGCCCTGTGGTA
CAGCCTGTCAATTCCAGGCCCAAGCCTGCATACCATGTTGCTGTGCGGGAC
GCTGCCGGCGGCTGTAGCACAATGCTAAGTATCTGTGTATCTCAACACAGAA
GAGGTAGAGTAAAGTACAGTATTATGATCGTACGGGACGCGTGTTGTACACA
CAGTCTATCATTGATGGAAGCATCGTTATATGGCACATTACTGCACTGTAAAA
AGACACCAAACCTTCGGCCGGCGCAGTGGCTCATGCCTGTAATCCCAGCACTT
TGGGAGGCTGAG

The following amino acid sequence <SEQ ID NO. 109> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 51:

SASQSAGITGMSHCAGRSLVSFYSAVMCHITMLPSMIDCVYNTRPVRSYCTLLYL
FCVEIHRYLALCYSRRQRPAQQHGMQAWGLELTGCTTGPGVRQPHRLGLRECIH
AVCARTRFSDRVLAVSLHMTVLIFEWSHVFGLLNRMFVFSEKMPIASHLQLHQF
RFRFELKCDLSIQKKSISTFGKISRLKKTFRVFKRTSSVKSSILKGCPINKLLWNCFI
SALFLCGTHSSKTAED

The following DNA sequence Seq-2639 <SEQ ID NO. 52> was identified in *H. sapiens*:

TTCTTCCTTTTCCTTTTCATTATCATTTTCTTTTGTCTCAAATAATGAAAAAT

GCATAAGGGTCTGTAGAGAGAAGAAAATGTCCTTGCCCATGAACTTCTTGCA
GGTATTTATCTTGCTTCTTTATCTTACTAAAAATAGAATTGAAAGTTTTTCATT
TTTTGTTTTTCAATTTTAGAGGATACAATGGAGATTCAGGAACGAATAGAAA
ATAGTTTTAAGTCTTTACTAGACCAGTTAAAAGGTAAGTTTTCTTACTGTAGA
TTCCTGTATTTGTATCTGGTTGTATGGCAATAGCTTCGAAGTTCTTCCCCTAT
TCCCAAGCCCAATCACCCAGAGATAAGTAAGTAGTTTTAACACTTTGGAGTC
AATACTCCTAGATGCCACCTAAACACATATGTGTGTGAATGAAAATACAGAT
AAAAAGTAATCTTTAAACATAGGAAATGGTGTAAATCCATGCTTTTTTGACTTT
AATTTTTTTTGTTATTTTGGATACCTTTCCATGTCAGTTATATATACCCCATTTA
TTTTCAAGACTGCGTAATATTCTATAGTATTGTATTAACATTTTTTATGTTATC
GCAATTGGTGACATATTATGTATATGAGTTATTTCTTCTACTGATGCTGAAAT
GAATATCTTGGGACAAATTGTTAGGGGTATTATTTGAGTCCTTCCTTGGGATT
AAATT

The following amino acid sequence <SEQ ID NO. 110> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 52:

FFLFLSLSFSFCLKIMKNAGSVERRKCPCTSCRYLSCFFILLKIELKVFHFLFFNFR
GYNGDSGTNRKFVFTRPVKRVFLLIPVFVSGCMAIASKFFPLFPSPITQRVSSNTL
ESILLDATTHMCVNENTDKKSLNIGNGVIHAFLTLIFLLFWIPFHVSYIYPIYFQDC
VIFYSIVLTFFMLSQLVITYYVYELFLLLMLKISWDKLLGVLFESFLGIK

The following DNA sequence Seq-2640 <SEQ ID NO. 53> was identified in *H. sapiens*:

CTTTTGAGGATTAAAAATTCCTGCTTACTGTCGTTATAACACGGGGATTAATA
AGCACCTTACTGGAATCTCTCACCTACCATAATTTTAGTATGCTATGTGAGGG
AATGAACAGTCTCACACATTTAATAATGACTACTCATATAATGCTTTTAATTG
GTAATGACCTATATGAAACATGATATAGAAAACACATTACAGCTTCTCAAAT
GACCCCTATAAGTTAACCAATTGCTTAGGTTTCTGACAAATTTGAATCTGGCC

CCATGCACCTTTGCTGGGCCCCACAAAACAAGGAGGTAGATTATTTATGAAG
 GTCAACCACTCTGGCAATATCACCATTAAATATCAAGCTCATCTGCCCCATAG
 CTCCTCCATCTTCAGGTCCAGGACTCTGGATTGGAATGACCTACCTCCACATT
 CAGTTCTGTAAGTCATTAGGCATCATCCAAGATGGTAGATGATGAATAAATG
 GACAATGACTTAAGCTTTTTTTACTCTCTCATCCATTCCAATGCTTTCTTCCCT
 GGTCTTTGCTCATTATTTCCATGTTATTTAATATATATTTGGAAGAATTCATGG
 CAGTGATAACAATAATGGCTACAATTTTTTATTACCTATGTATGCCAGGCATT
 GTGCTAAGTGCTTCAGGTATAAGATCTTGTAAGGGATTGGTTACATTTTACAG
 ATGGTAAGACTGGGATTCAGATGTTAGTTGCCTGTTTAAGTCAATAA

The following amino acid sequence <SEQ ID NO. 111> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 53:

FEDKFLLTVVITRGLISTLLESITYHNFSMLCEGMNSLTHLIMTTHIMLLIGNDL
 ETYRKHITASQMTPIPIAVSDKFESGPMHLCWAPQNKEVDYLRSTTLAISPLNIK
 LICPIAPPSSGPGLWIGMTYLHIQFCKSLGIIQDGRINGQLKLFLLSHPFQCFLPWSL
LIISMLFNIYLEEFMAVITIMATIFYYLCMPGIVLSASGIRSCCKGLVTFYRWDWDS
 DVSCLFKSI

The following DNA sequence Seq-2641 <SEQ ID NO. 54> was identified in *H. sapiens*:

CTCTTCTCCCTAGGTGGTTTGCTGGCAATCTTTGGCATTCTTAGCTTGTGGAA
 GTATCACTCCATCTCTGTCCTGATTCTACATGGTGTTCTTCCTGTGTGCATGT
 CTGTCTCCAAATTTCCCCATTTTATAAGGACACAGTCATACTGGATTCGGGCT
 CATTCTAAAGACCTCATTTAATTTAATTCCATAAAGACCCTATCTCCAAATAA
 TGTCACATTCTGTGGTACTGGGGGTTATGACTTAAACATATAAATTTTAGGGA
 GACAAATTTGAACCTCTAACAGTACTGAACATCCAGGATGGAAGAACATGGT
 ATTAGGTTGAGCCAAACACAGTTGCTTACGTTTTGGTTTTCTCACCAGGACA
 AGAAACCCCCAGTGCAGGAAAATTGGAGACATGGAAAACAGGGCTTAAGTA

AACA

The following amino acid sequence <SEQ ID NO. 112> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 54:

SSPVVCWQSLAFLSLWKYHSISVLISTWCSSCVHVCLQISPFYKDTVILDSGSFRP
HLIFHKDPISKCHILWYWGLLKHINFRETNLNLQYTSRMEEHGIRLSQTQLLTFWF
SSPGQETPSAGKLETWKTGLKT

The following DNA sequence Seq-2642 <SEQ ID NO. 55> was identified in *H. sapiens*:

TTATTATACTCAACACTGCTAGGAAAGAATCAGTGATGTTGAAGATATATAT
ATATATATTTGCTTGTGTATTTGTGTGTGAGAGACACACATAGAAAAAAGA
GAGAGAGAAATATATTGGTTGACACTGGCTTCTTTGAAAAAAGGCAGTTTAG
TAACAATGGCCTTTACTAGACAGACATGTTAGAAGGCAGCAGGAGAAAGGG
AATGTGGTATCAGATATTTTCTGTAAAAGGTTTGTATTAAATTCATGTGGC
AAATTGTAGCTGATGTCAAAGTAGTTATAAAGCAAGGGGAACACAATTCTTT
TACAGCAATGTTGAGGTCTAAGAAACATAAAACAAATACCTGGTAAGTACCA
TGCATATATACATACATAAACAATCAATAACTCACAAAACATTCACATATTTG
CAACACTGCTTTTTCAGTTTATGCAGTTTATTTTTTGTTCTTTTTAAGCTTTTTAT
TATAGTGAATGTCTTATATTTTCATTAAGTTTGTATATTATATGTGAAACAA
CAGTTCTGATAAAGCAATATCTAGATAAAGGCTATTACTTACCTTTCTCAAAT
TGATAGATTTTCTCCTTGTAACAAGCTCTGATATAAAATATGATAATTTGTTG
AAAACCTTTTACACATTCAAACTAAATTATCATATATTTAATGAGACTTTGGG
TGTGTATGTGTGAGTGTGTGTCTGTGTGT

The following amino acid sequence <SEQ ID NO. 113> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 55:

IITDTHSHIHTQSLIKYMIIFMCKSFQQIIFYIRACYKEKIYQFEKGKPLSRYCFIRT
 VVSHIISKLLMKYKTFTTIKSLKRTKNKLHLKSSVANMMFCELLIVYVCIYAWY
 LPGICFMFLRPQHCCCKRIVFPLL NYNYFDISYNLPHEYQTFYRKYLIPHSLSPAAFHV
 CLVKAIVTKLPFFKEASVNQYISLSLFFYVCLSHTNTQANIYIYIFNITDSFLAVLSII

The following DNA sequence Seq-2643 <SEQ ID NO. 56> was identified in *H. sapiens*:

AAAACCTGGTTTTTTTAAAGCAAACACAGAAACAATGTAATATAGGTCTTATT
 ACATATGTAGGAAATAAAAATAATATGTATGACGACAACAGTAGTCTAAAAT
 TCAGGAGACAGAGAATGGAAGTACATTGTTGCAAGGTTTTCTAATACACATG
 TACAAAGTGGTATAATGTTACTTGAAAGATAACTGTGATAAGTTAAAGACGT
 AATCAATGACACTATATCAACCACTAAAATAATACAACAAAGGATATACGAA
 ATATTTTTTAAAAGTATAATTAACCCAAAAGAAAGCATAGAGGAAAAAGGGA
 ACAAGAATAATAGATGGAATAAACAGAAAAAACTAGCCAGCTGGTAAATT
 TAAAACCGATCATATACATATTCACATTAAATACAAAAAGTTTAAACACTTC
 AAAGTCAAGTCAGAGGTGTCATATTGGATAAAAAGAAAGACTCAACTATATG
 TTACCTATAAGGAATGCACTTTAAATATACAAACATATTTAAATAAAAAGAT
 GAAAAGTTATATACAATGTTAATACTCATCAAAATAAAGCTAATGAGGCTAT
 ATTCATATTAAAAAGTAGGTTTTTAAAGCAAAGATTAC

The following amino acid sequence <SEQ ID NO. 114> is the predicted amino acid
 sequence derived from the DNA sequence of SEQ ID NO. 56:

SLLNLLFNMNIASLALFVLTLYITFHLFILICLYISAFIGNILSLSFYPIHLLDFEVFK
 LFVFNVMYMGFKFTSWLVFSVYSIYSLFPFSSMLSFGLIILLKIFRISFVVLFW
 LICHRLRLITVIFQVTLYHFVHVYKTLQQCTSILCLLNFRLLLSSYILFLFPTYVIRPI
 LHCFCVCFKKPSF

The following DNA sequence Seq-2644 <SEQ ID NO. 57> was identified in *H. sapiens*:

TCAAGTCCATGCTTTTACGGAAAGACCCCAGTTCCTGCCTCTTCTATATATTT
ATCTACCTTGTGGTGAAGAGCATGTGTGTGCAACACCTTTGCCTGAAATGGTA
TGGTTTGGCATTAAATGAATTGTGGGTCCATTGAAAAGAAATCTCCTCTTGTTT
CTCGTGTTATGGACAGTTCAAGGTTTGCCTTAGAACTAACTTCAAGGAAAAGT
AGCAGAATCGTAGGAAGGGACAATCTTGCCTTCAGTCCCACCCTCTGTTCCG
GGCAGGTCTGGGTGGCTATCTTCTTTCGGGGGCTTTTCCTTGCAGAAGAACTT
CTTCAGCATGTCCTGGATTTCTTCTTAATGGTCTTGTGCATGTAGCCATAGA
CATAGGGGTGGATGCAGCACTGCAGGAAGAAAAGCCAGATGATTATGGTGA
TCACCCACTGGGGTACCTGGGTTTCGACATCCACCCACACGGCCAGGACTGC
TAAAAAGCAGTAGGGCCCCAGGGATAGCACATAGGAGAAAATGATGATGAA
GATCACTTTAGCAGCTTTGCACTGGTAGCACCTGGGCAGAGGAGGGTTGCTG
TTGCTGTTACGACGACTGGGTGGGAGGCTCTCCGGGATGTTCACTGCCTCGAC
GTCATCCTCACTGAAATTGATGTCGTCTTCACCAAACCTCCATGTCATCTTCAC
CCAAGTCAATGCTGCACTGGTTGACCTCTGTGCGACCCTTGTCTGCCTTCATG
CTGTTCTCCTC

The following amino acid sequence <SEQ ID NO. 115> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 57:

EENSMKADKGRTEVNQCSIDLGEDDMEFGEDDINFSEDDVEAVNIPESLPPSRRN
SNSNPPLPRCYQCKAAKVFIIIFS~~YVLSLGPYCFLAVLAV~~WVDVETQVPQWVITII
~~IWLFFLQCCIHPYV~~YGYMHKTIKKEIQDMLKKFFCKEKPPKEDSHPDLPGTEGGT
EGKIVPSYDSATFPSFGKPTVHNTRNKRRFLFNGPTIHCQTIPFQAKVLH~~THALHH~~
KVDKYIEEAGTGVPKHGL

The following DNA sequence Seq-2645 <SEQ ID NO. 58> was identified in *H. sapiens*:

AGTGGAAAGACCACACCTAGGAACCGACTCTAGCTCTTACCACCCTGTAAGC

CTGAGGCTCAGTTGCTGTCCCTGGAGAACAGAAAACATAATCATGGCTATTC
TGAGGGTCAGGGGCAAGTGCTTTGCAAGTGGGATTGTGGTGGGCAGTGGGAG
GGATTCTGGGGTTCACTGTCATGCTAGTTGTGTAAGTGGGCAATGCAACCGTG
TAAGTGTCAGGAAACCTCAATAAGACTGAGCCAGAGGCCAATAAGAAGCC
AGCATTTACATGATGTTCTTTTCCTTTTTGTAACTAGGAAATTCGATTTGCAC
ACTGATTTGGCCCACCATTCCTGGAGAGATCTCGTGGGATGTCTCTTTTGTTA
CTTTGAACTTCTTGGTGCCAGGACTGGTCATTGTGATCAGTTACTCCAAAATT
TTACAGGTATGTTTTCTGCAAGTGCTGCCACTGAACTTCACCCAGGCTTGGGG
TTATTTCTGCTAGAATCTTAGAATTTGGGGTCGGAGAACACCTAAGAGTTCAC
GCCAGCTCAATCTTGATTCAGTCCCAGGTCTACAACACTGAGGAAGGAGAG
GATTTTTTTAGAAAGTTATATCTTTGTGATTATGTTTTTTGCTCATCACTAAAGT
AATACT

The following amino acid sequence <SEQ ID NO. 116> is the predicted amino acid sequence derived from the DNA sequence of SEQ ID NO. 58:

SGKTTPRNRLLLPPCKPEAQLLSLENRKHNHGYSEGQGQVLCKWDCGGQWEGF
WGSLSCLCNWAMQPCKCQETLNKTEPEANKKPAFTCSFPFCNEISICTLIWPTIPG
EISWDVSVFVTLNFLVPGLVIVISYSKILQVCFLQVLPLNFTQAWGYFCNLRIWGRR
TPKSSRQLNLDLPRSTTLRKERIFLEVISLLCFLITKVI